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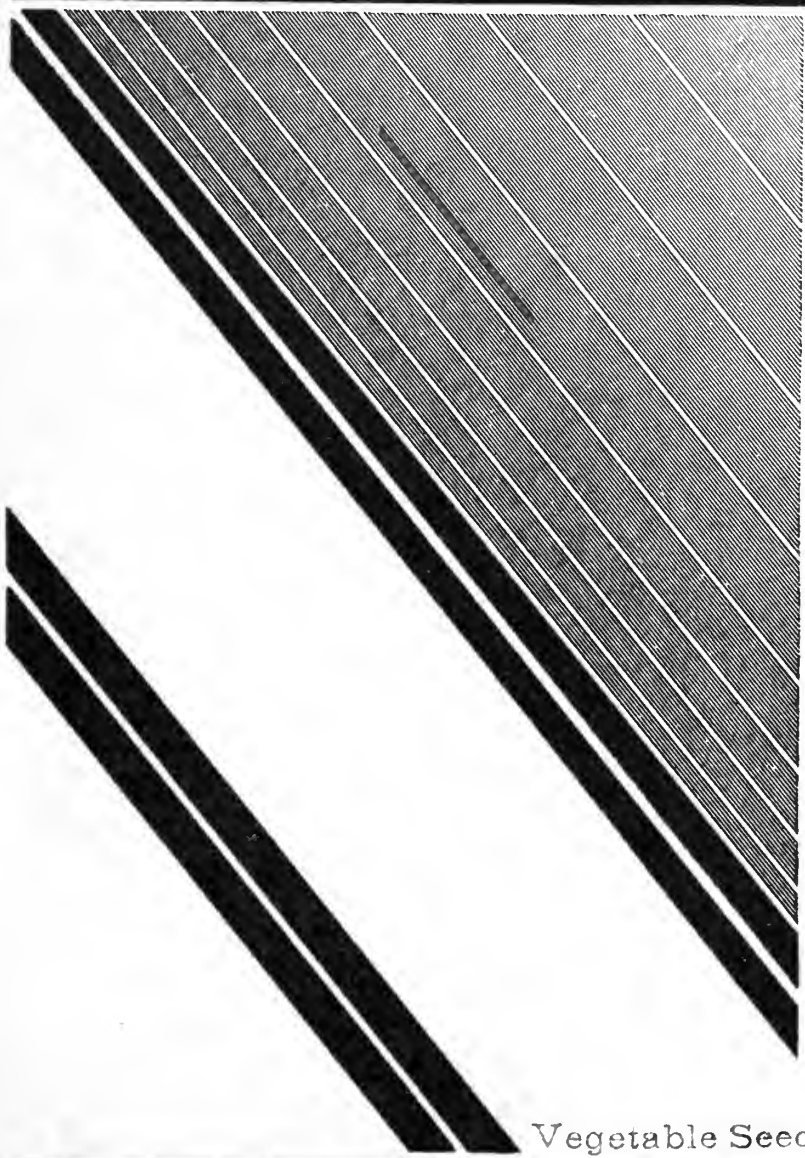
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U.S. Department of Agriculture

# PALMER'S SEEDS



**1931**  
EDITION

**PALMER SEED  
COMPANY**

617 NORTH BROADWAY  
1/2 BLOCK NORTH OF WASHINGTON AVE.  
ST. LOUIS ... MISSOURI

Vegetable Seed Trials

# 1931 Catalog of PALMER SEED COMPANY

## Terms of Business

**SEND REMITTANCES** by check, post office money order, or express money order. Small amounts may be conveniently sent in stamps. Orders to be delivered C. O. D. should be accompanied by a cash payment of 25 per cent of the total amount of the order, except where the customer lives in the immediate St. Louis territory.

**WE PAY DELIVERY CHARGES** on all orders for flower seeds, vegetable seeds, and bulbs to any post office, express office or railroad station in the United States.

**CUSTOMER PAYS DELIVERY CHARGES** on peas, beans, corn, farm seeds, grass seeds, seed potatoes, onion sets, fertilizers, insecticides, tools and general garden supplies. Postage on these items should be included with the order, unless shipment is desired by express or freight.

**FREE LOCAL DELIVERY SERVICE.** All orders amounting to \$2.00 or more will be delivered **FREE OF CHARGE** to any address in St. Louis, University City, Clayton, Richmond Heights, Maplewood, Webster Groves, Kirkwood, Brentwood, and other suburbs immediately adjoining St. Louis.

**NON-WARRANTY.** While we exercise the utmost care in selecting the products we sell, we give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, plants or shrubs we send out, and we will in no way assume responsibility for the crop.

## Advisory Service

**CORRESPONDENCE.** We invite you to communicate with us for advice and information on all phases of gardening, and assure you that all letters of inquiry will have the attention of a specialist on the subject in question.

**PERSONAL VISITS.** An experienced representative from our company is available to personally visit your grounds and offer advice and counsel on the building, improvement and maintenance of lawns and gardens. Appointments to be made in advance.

**PRIZES TO GARDEN CLUBS.** It is our policy to offer trophies, seeds, bulbs, and horticultural requisites as prizes for flower shows and garden club events. Officials of garden clubs are free to call on us for this co-operation.

## Garden Publications

The following publications are sent free of charge to everyone enrolled on our mailing list. As we keep separate lists for each class, please be specific in writing for catalogs and literature. We do not wish to annoy you with material on subjects in which you are not interested.

### GENERAL SPRING CATALOG

Published January 1. An illustrated and complete catalog of all seeds, bulbs, plants, shrubs, garden tools, fertilizers, insecticides and horticultural requisites.

### MARKET GARDENERS' LIST

Published January 1. A special catalog for commercial vegetable growers, shipping associations, canners, etc., listing the finest strains of seeds in the best marketable varieties. Also fertilizers and insecticides.

### MIDSUMMER CATALOG ADVANCE BULB AND PERENNIAL SEED LIST

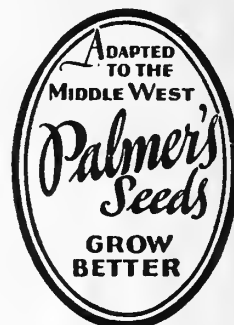
Published May 1. Preliminary prices on Holland, Japanese, Bermuda and domestic bulbs for Fall planting. Also includes a complete listing of perennial seeds and summer garden needs.

### FALL CATALOG

Published August 15. A comprehensive list of bulbs and plants for Fall planting. Includes Tulips, Hyacinths, Narcissi, Lilies, Peonies, Iris and Forcing Bulbs. Also Perennial plants and seeds, lawn grasses and horticultural supplies.

## Palmer Seed Company Importers

617 N. Broadway      ½ Block North of Washington Ave.  
St. Louis, Mo.



Domestic Parcel Post Rates (under existing laws)		For First Pound Allow		For Each Additional Pound Add	
Within the U. S. and Possessions Zones from St. Louis		Pound		Pound	
First Zone within 50 miles		\$0.07		\$0.01	
Second " " 50 to 150 "		.07		.01	
Third " " 150 to 300 "		.08		.02	
Fourth " " 300 to 600 "		.08		.04	
Fifth " " 600 to 1000 "		.09		.06	
Sixth " " 1000 to 1400 "		.10		.08	
Seventh " " 1400 to 1800 "		.12		.10	
Eighth " over 1800 miles		.13		.12	

Weight limit within the first, second and third zones is 70 pounds; within the other zones the weight limit is 50 pounds. In all zones, the size limit is 84 inches for combined length and girth.



# Palmer's New Seed Store

## A Rendezvous for Garden Lovers

The consistent growth of our business has necessitated a move to larger quarters, and we are pleased to announce our new location at 617 North Broadway—1½ blocks south of our former store at 800. Here we have a more spacious building and modern equipment for the quick and efficient handling of trade. Four floors comprise our retail salesroom, office, and warehouse—all concentrated under one roof to serve you better.

Our customers will be interested in the many advantages of this expansion:

- 1 Increased facilities for enlarging our stock of seeds, bulbs, plants and horticultural supplies, and for displaying them to best advantage.
- 2 Closer proximity to the central shopping district, making it more convenient for our customers to trade with us.
- 3 A larger and more experienced staff of seedsmen to help you with your garden problems.

## The House of Quality

Here we have assembled from all parts of the world, a most comprehensive stock of **fine quality** seeds, bulbs, plants, and horticultural supplies. Those who have been accustomed to sending away to far-off markets for their garden requirements each spring, will profit by carefully examining this catalog, and visiting our new store.

Be sure to visit us during the spring season. You will always find a kindly welcome, and an intelligent, courteous service at Palmer's.

## Free Local Delivery

With Purchase of \$2.00 or More

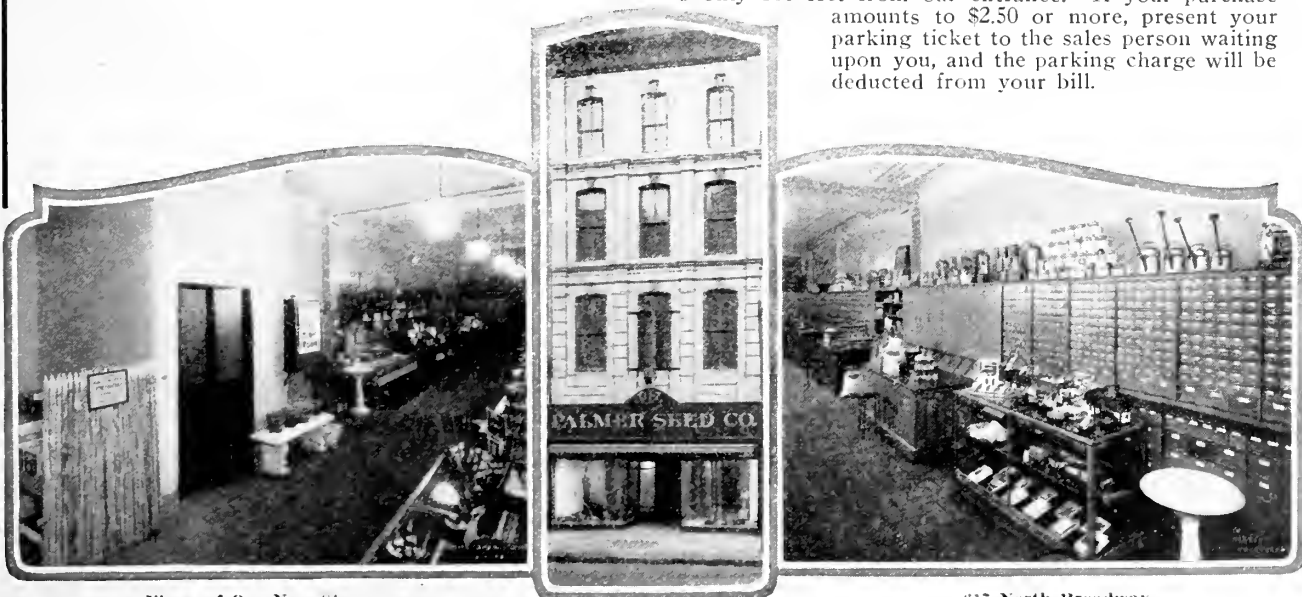
We maintain a daily delivery service to any address in St. Louis, University City, Clayton, Richmond Heights, Maplewood, Webster Groves, Kirkwood, Brentwood, and other suburbs immediately adjoining St. Louis.

All orders amounting to \$2.00 or more will be delivered **free of charge**. Orders for less than \$2.00 will carry a delivery charge of 25c.

## Free Parking Downtown

With Purchase of \$2.50 or More

You are invited to park **two hours at our expense** at the Union Market Garage, Broadway and Lucas, which is only 100 feet from our entrance. If your purchase amounts to \$2.50 or more, present your parking ticket to the sales person waiting upon you, and the parking charge will be deducted from your bill.



Views of Our New Store,

617 North Broadway.

# Palmer's Lawn Seeds

**Field Ripened**

**Sun Cured**

**Double Processed**

Most of our customers know the luxuriant beauty and enduring texture of lawns sown with Palmer's Seeds. To those who have not yet learned the secret of lawn success we are addressing this message.

Do it differently this year! Instead of buying "grab bag" lawn seed, why not select the right seed for your soil and location? Our experts will advise you without charge—just call Central 4177 and ask for the "Lawn Clinic." Or better still, come in the store and talk it over. It may help you avoid unnecessary mistakes.

## Why Palmer's Lawn Seeds are Better

**Field Ripened.** They are left in the fields until thor-

## FOREST PARK Formula

### Our Deluxe Mixture

Forest Park is a blend of the finest imported and domestic grasses for lawn use, composed of 6 luxuriant varieties which have been combined into a mixture with the care and precision of a chemist. The adaptability of each grass for lawn purposes was considered from every angle—height, color, texture, hardness, long life, etc. As a result, we have in Forest Park a mixture of lawn grass that will succeed to perfection in the territory known as the Central Mississippi Valley. We do not hesitate to recommend it to home owners, estates and other discriminating buyers as the one ideal lawn mixture for this district. If you desire a smooth, velvety, rich green, enduring lawn—sow Forest Park Formula.

Contains no Timothy, Orchard Grass or other coarse varieties.

**Sun Cured.** Instead of being harvested green and dried by artificial processes, Palmer's Seeds are cured by the strength-giving rays of the summer sun.

No weakly, under-developed, shriveled seeds, but full grained, vital, healthy seeds that will produce a strong, tenacious, enduring sod.

**Double-Processed.** After nature has done her work, Palmer's Seeds are taken into the mills and double-recleaned by intricate machinery to remove weed seeds, chaff, dirt and other impurities. Thus, in Palmer's Lawn Seeds the magic of nature and the wonders of science are combined to a remarkable degree of perfection.

## Shady Lawn Mixture

A shaded situation requires a widely different blend of grasses than the average lawn and the secret of producing a lawn in the shade lies entirely in the use of the correct grasses. To supply genuine mixture for shady places, we must import *Poa Trivialis* from Germany and other grasses from Europe and Australia. We have experimented with this formula and know it will give you complete satisfaction. Many grasses are sold as shady lawn mixtures but few are prepared on a scientific basis to meet the requirements of shaded areas.

## NUGREEN MIXTURE

We have prepared this mixture for those who do not require a permanent lawn. It is composed of quick-growing grasses that will establish a lawn in a very short period. For sowing in back yards, lots and lawns in the heart of the city, Nugreen will prove very useful. Not as permanent, but for one season it is as beautiful as any grass.

## Terrace Mixture

A special mixture of grasses for terraces and sloping lawns. They have the vigor and enduring qualities that resist drought and exposure, and spreading roots that prevent washing from heavy rains. If you are having difficulties with your terrace we urge that you give this mixture a trial. It makes a rich, green turf and will thrive on any average soil.





## COCOOS or SEASIDE BENT

"Agrostis Maritima"

A new and distinct strain of Bent grass discovered by a former U. S. Government Agronomist in the Coquille Valley in Oregon. During its short commercial life, it has risen rapidly to popularity as a grass of outstanding merit.

It produces finer leaf blades than any other grass, and a tenacious root system that crowds out weeds and clover. It is superior to all other varieties of Bent grass whether for home lawns or putting greens.

Cocoos thrives best in sour soil. Although its growth is most luxuriant in soil of rich sandy texture, it succeeds in soil much less fertile than will other grasses.

Some of the outstanding facts that make Cocoos the last word in fine turf are: It retains its vivid green color even under adverse conditions; stands hard wear and heals quickly when injured; resists severe drought and excess moisture; produces blades of a finer texture than other grasses; stands erect and holds a true even surface and produces more grass per pound of seed than any other variety. One pound of Cocoos is sufficient to seed 400 square feet.

Cocoos is the only Bent grass seed that can be sown in an established Bent lawn with success. If you already have a Bent lawn that needs touching up, you can make it perfect by adding Cocoos seed. Lb., \$2.50.

## WASHINGTON BENT STOLONS

In creating a Creeping Bent lawn the vegetative or stolon method has been the most successful during the past few years. Stolons are root joints or "nodes" that take root when planted and spread into a firm sod. Planted at the rate of 1 bag to 400 square feet, Washington Bent stolons will make a perfect lawn in 6 to 8 weeks. They can be planted any time between March 1st and May 15th. Require constant attention and watering, especially during the first few weeks. However, after once well established it fights its own battles with weeds and other grasses, crowding them out entirely.

1 bag stolons, \$8.00 per bag; 3 bags or more, \$6.00 per bag. Prices f. o. b. St. Louis.

One bag will sow an area of 400 square feet. Write or call for free literature on Creeping Bent.

**Kentucky Blue Grass** (*Poa Pratensis*). The most reliable of all domestic grasses. Produces a close, thick turf of a beautiful dark green color. Thrives best on well enriched, limestone soils.

**Canadian Blue Grass** (*Poa Compressa*). A grass very similar to Kentucky Blue Grass but of a lighter green shade. Some tests show it to be better adapted to poor soils, but for general lawn use the latter is far superior.

**Red Top** (*Agrostis Vulgaris*). A member of the Bent family. This is an excellent grass for quick growth and for use on run-down soils and in wet places. It makes a fine, narrow leaf-blade and is used extensively in mixtures.

**English or Perennial Rye Grass** (*Lolium Perenne*). For quick results this grass has no rival. Produces a rather wide blade, and is used principally in a mixture with hardy grasses. Adapted to a medium, moist soil.

**Creeping Bent** (*Agrostis Stolonifera*). By far the most beautiful of all turf grasses. It is a low-growing grass and produces a carpet of rich, velvet-like green turf. Particularly recommended for golf greens and fine lawns. Thrives best in a moist, acid soil.

**Red Creeping Fescue** (*Festuca Rubra*). A creeping rooted grass producing a closely formed turf of excellent texture. Resists drought, and thrives well on poor soils, dry soils, and in shady places.

**White Dutch Clover** (*Trifolium Repens*). White Clover will produce a lawn on almost any soil. Its low, close-growing habit makes it valuable in checking crab grass. Much used in mixtures but does not stand dry, hot weather well.

**Poa Trivialis** By far the best grass for shady places. It produces a narrow, flat leaf-blade and forms an exquisite close turf. It is closely related to Kentucky Blue Grass but is much finer and softer. Especially suited to shady places. Thrives in all soils of reasonable fertility. We recommend it very highly.

**Bermuda Grass** (*Cynodon Dactylon*). This grass freezes out during the winter in the North, but makes a permanent, close turf in the South. Resistant to drought and very durable when once well established in warm climates. Bermuda Grass is used to some extent in the North for spring and summer lawns, and with good success.

## Lawn Seed Prices

MIXTURES—	1 Lb.	3 Lbs.	5 Lbs.	10 Lbs.	25 Lbs.
Forest Park					
.....100 lbs., \$35.00..	\$0.50	\$1.40	\$2.25	\$4.50	\$10.50
Nugreen, 100 lbs., \$25.00..	.35	1.00	1.50	3.00	6.50
Shady Lawn .....	.60	1.75	2.25	5.50	12.50
Terrace .....	.75	2.00	3.25	6.00	14.00
UNBLENDED—					
Kentucky Blue					
.....100 lbs., \$42.00 ..	.55	1.60	2.50	4.75	11.00
Canadian Blue Grass					
.....100 lbs., \$37.50 ..	.50	1.45	2.25	4.50	10.00
Red Top .....	.40	1.10	1.75	3.25	7.50
English Rye .....	.25	.70	1.00	1.80	4.00
Chewings Fescue .....	.60	1.75	2.75	5.50	12.50
Poa Trivialis .....	.75	2.00	3.25	6.00	14.00
German Creeping Bent ..	1.50	4.25	7.00	13.00	32.25
Cocoos Bent .....	2.50	7.50	12.50	25.00	50.00
White Clover .....	.65	1.85	3.00	5.50	12.50



Sunshine Asters.

## New Sunshine Asters Improved California

Immediately following the introduction of Sunshine Asters we have a new and improved type in California Sunshine Asters. They grow fully a foot taller than the original Sunshine, averaging stems 2 to 2½ feet, which are stronger and more erect. One must really see this exquisite new Aster to fully appreciate its enchanting beauty. We offer it to you in a comprehensive range of colors including flesh, lavender, carmine, and true pink. Pkt., 25c; 4 pkts., 85c.

## Ageratum Blue Cap

Undoubtedly the finest dwarf Ageratum introduced up to date. The flowers surpass Little Blue Star in size, dwarfness and compactness of habit. The foliage is small, transforming the plants into miniature domes of flowers, making it the ideal edging to flower beds. The color is a rich, deep blue. Pkt., 30c; 5 pkts., \$1.25.

## Cynoglossum Amabile Blue

This is not entirely new but was brought from China a few years ago and grows exceptionally well in this climate. The fact that it is found only in the gardens of the more enterprising flower lovers, makes it still a novelty to many. Of very sturdy growth, throwing sprays 18 inches long, of gorgeous blue flowers resembling forget-me-nots. Pkt., 25c; 5 pkts., \$1.00.

## Cynoglossum Amabile Pink

Similar in every way to the blue Cynoglossum except that the flowers are a rich deep pink. It was first introduced by the Royal Botanical Gardens of Kew, England. Pkt., 25c; 5 pkts., \$1.00.

## Scabiosa, Giant Loveliness

Loveliness is undoubtedly the most beautiful Annual Scabiosa ever introduced and is the result of many years painstaking selection. Its crowning beauty is its glorious salmon-rose color. The huge blossoms have a delightful fragrance and are carried on long stiff stems, making it an indispensable cut flower. Pkt., 25c; 5 pkts., \$1.00.

## Antirrhinum, Majestic

We have great confidence in recommending this new race of bedding Snapdragons and we urge our customers to give them a trial. Their compactness of habit and massive flowers are ideal for bedding, growing to a height of 18 inches to 24 inches and forming sturdy plants with a plentifulness of flower spikes of solid bloom. Be sure to include a collection in your flower seed order this year:

- "Majestic" Eldorado. Deep golden yellow.
- "Majestic" Rose Marie. Light salmon-rose with golden center.
- "Majestic" Daffodil. Pale lemon-yellow with a broad band of deeper shade across the center.
- "Majestic" Red Chief. Rich deep scarlet.
- "Majestic" Golden Dawn. Golden buff overlaid salmon.

Pkt., 50c; 5 pkts., \$2.00.



La France Larkspur.

## New Larkspur, La France

An exceedingly graceful and attractive flower easily qualified as the leader of new Larkspurs. It is a lovely shade of true salmon-pink which will be a pleasant surprise to those who grow it. A profuse bloomer, strikingly effective and showy in the border and unsurpassed for cutting. It often throws 12 to 14 laterals from the crown stem. You will be delighted with this new and better Larkspur. Pkt., 25c; 5 pkts., \$1.00.

## New Larkspur, White Spire

We offer this new Larkspur as a companion to La France, as they give a very pleasing effect when planted together. It is of similar habit to the La France, pure white, a vigorous grower and profuse bloomer. Pkt., 25c; 5 pkts., \$1.00.

## Calendula, Radio

A very distinct novelty in Calendula and so different from the old-fashioned centered type. The flowers are globe-shaped and do not show their centers. The color is a rich deep orange. A novelty of great merit. Pkt., 25c; 5 pkts., \$1.00.

## New Annuals

These new Annuals are presented to you as outstanding among the meritorious introductions for 1931. Each we consider an achievement in its particular family, and behind them we place our most enthusiastic endorsement.

## Special Introductory Novelty Offer

One Packet each of the Eleven  
New Annuals listed on this page  
for only

**\$3.00**

Regular value, \$3.55.

## Venedium Fastuosum

An annual of outstanding merit. Easy to grow and has great substance. Produces brilliant orange flowers, 4 inches in diameter, with a black center. It has very attractive foliage of soft gray which sets off the flowers to perfection. Perhaps our best recommendation is that Venedium Fastuosum received the Award of Merit offered by the Royal Horticultural Society. It should be tried by all enthusiastic flower lovers in their 1931 garden. Pkt., 75c; 5 pkts., \$3.00.

## New Calendula "Sensation" or "Campfire"

A beautiful new variety that is a sensational development in Calendulas. It is a decided improvement over the ordinary, both in form and substance, the flowers being larger and double throughout. The long, strong stems of Campfire make it unexcelled for cutting. Its color is a fascinating shade of rich brilliant orange with a scarlet sheen. It can also be recommended as the best Calendula for greenhouse forcing. Pkt., 25c; 5 pkts., \$1.00.



Campfire Calendula.

# and Specialties - 1931 *Palmer's Seeds* *Grow Better*

## New Perennials

Exceedingly interesting are these unusual and exquisite European Perennial Specialties for 1931. In them you will find a veritable paradise of beauty and charm for your garden. Include a packet of each in your Spring Seed Collection. They will delight you.

### Special Introductory Novelty Perennial Offer

One Packet each of the Eight New Perennials, for only

**\$3.00**

Regular value, \$3.50.

## Aquilegia fl. pl. Red Riding Hood

Here is something very new in this popular flower. A double Columbine with outer petals—an exquisite rose shade spread out over a pure white double center. A decidedly dainty blossom and a very uncommon and effective color combination. Pkt., 50c; 5 pkts., \$2.00.

## Aquilegia, Long Spurred Crimson Star

Up to the present we have had to be content with practically nothing but mixtures in Long-Spurred Columbine, but in Crimson Star we offer a brilliant dark crimson that will speak for itself when massed in the border. The plants are compact in growth and produce numerous well-shaped flowers held erect on good stems. Pkt., 40c; 5 pkts., \$1.75.

## Viola Cornuta, "Jersey Gem"

Reintroduction from 1930

Jersey Gem forms a large, compact plant, producing a continuous profusion of bloom all summer long. The flowers have a very pleasing shade of violet-blue, resembling miniature or tufted pansies. A great feature of this new variety is its drought-resisting qualities. It will bloom the first year from seed sown in February and March in hotbeds and transplanted. Pkt., 50c; 5 pkts., \$2.00.



Viola Cornuta.

## New English Delphinium Wrexham Hollyhock Strain Hybrids Mixed

Reintroduction from 1930

The new Wrexham Delphiniums are a phenomenal improvement over even the best of the old English Hybrids. They are entirely new in color and form, producing massive spikes of great length, covered with rosette blossoms of unusual dimensions. Colors include all the shades of lavender, blue and mauve to pinkish lavenders. Order this magnificent Delphinium early, as the demand is anticipated to exceed our limited supply of seeds. Pkt., 50c; 5 pkts., \$2.00.



Wrexham Delphinium.



Aquilegia, Long Spurred  
Crimson Star.

## Papaver Nudicaule Fakenham Hybrid

A new Iceland perennial poppy. The habit of the plant is an improvement in every way, being much stronger and throwing wiry stems topped with good size open flower heads. It is exceptionally free and graceful and makes a lovely cut flower, lasting from four to five days when cut young. The colors embrace many new tints such as apricot, biscuit, mauve, deep tangerine and lemon in all shades. It will probably bloom all summer if the seed pods are cut off. Pkt., 40c; 5 pkts., \$1.75.

## New Siberian Wallflower

Reintroduction from 1930

Our customers found this an outstanding success in 1929, and were highly elated over its unusual beauty. The plants grow 15 inches high and produce gorgeous orange flowers and shining dark green foliage. They bloom the whole season through, and the plants will survive our most severe Winters. If sown in the hotbed during March the plants will bloom the first year. Pkt., 35c; 5 pkts., \$1.25.

## Gaillardia Grandiflora Portola Hybrids

Reintroduction from 1930

A remarkable new strain of this popular flower, coming true in the rich shades of red, tipped golden. The blossoms are of large size and are carried on long stems, rising from sturdy, compact plants. Excellent cut flower. Pkt., 35c; 5 pkts., \$1.25.

## Gaillardia Burgundy

At last we can offer to Gaillardia lovers a true red. The shiny wine red marguerites, about 2½ inches in diameter, are produced in abundance on long stems by the compact bushy plants which attain a height of 2½ feet. They bloom from June until frost and if sown in March will bloom the same year. Pkt., 50c; 5 pkts., \$2.00.



## New and Superior Vegetables for 1931 Gardens

Advancements are being made each year in the production of vegetable seeds. Earlier varieties, more delicious flavors, better keeping qualities and increased nourishment in vegetables is the constant aim of the world's leading growers. As the outstanding achievements in their particular class we offer on this page new introductions of great merit. Acquaint yourself with their superior qualities this spring by planting at least a trial quantity.



### A New Tomato "Break o' Day"

It is not often that we are able to offer our customers a new vegetable as valuable as Break o' Day Tomato. This excellent introduction scores another victory for Dr. Fred J. Pritchard, senior Physiologist of the U. S. Department of Agriculture, and will in all probability supersede the other early maturing globe-shaped varieties. Break o' Day is a cross between Marvana and Marglobe, possessing the disease-resisting quality in both to a very marked degree. In size, color, shape and solidity, the fruit is very much like Marglobe but matures from 10 to 12 days earlier. It produces a very heavy plant and from a standpoint of yield is one of the most prolific varieties ever introduced. The fruit is globe shaped and of a beautiful deep scarlet color, and is unusually meaty, producing very few seeds.

We do not hesitate to give it our strongest endorsement as it is sure to be a success for home gardeners, truck farmers and canners.

Pkt., 25c; 1/2 oz., \$1.50; oz., \$2.50; 1/4 lb., \$8.00; 1 lb., \$25.00.



### Red Cored Chantenay Carrot

There has been an emphatic demand during the past few years for a carrot with the shape and size of Chantenay but without the pronounced "core." The only strain safely referred to as a "Coreless" Carrot has been the true French stock of Nantes, the heart of which is the same color as the flesh, is very tender, and does not turn yellow when cooked.

After several years of patient work our growers have been successful in combining into one carrot the size, shape and general characteristics of Chantenay, with the advantages attributed to Nantes for slicing, and dicing for soups, salads, etc. The fortunate outcome of this effort enables us to present to our customers a new and superior carrot for 1931.

The outstanding features of the strain are the smoothness and refinement of its roots, the excellent color of both interior and exterior, which is a deeper orange than the regular Chantenay. The roots are very uniform, perfectly shaped, have unusually small tap roots and small collars. The tops are shorter, foliage finer cut but firm and substantial for bunching.

Every home gardener and market gardener should grow the new Red Cored Chantenay Carrot for 1931. Pkt., 10c; oz., 25c; 1/4 lb., 75c; 1 lb., \$2.50.

### A New and Better Stringless Green Bean "Masterpiece"

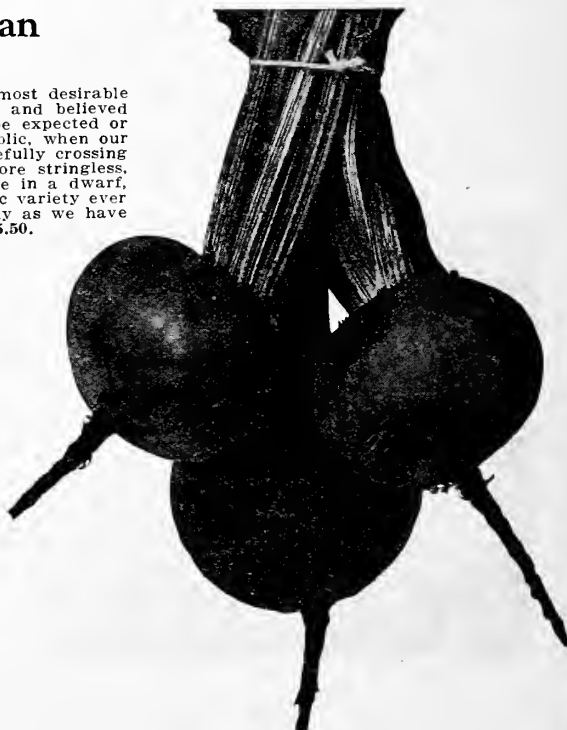
With the introduction of Fullmeasure Beans a few years ago we believed the most desirable qualities of the bean had been developed to a remarkable degree of perfection, and believed further that it would be a long, long time before any great improvement could be expected or desired. But hardly has Fullmeasure reached the attention of the gardening public, when our growers present an even greater achievement—the Masterpiece. Produced by carefully crossing and selecting two of our standard varieties, Masterpiece is even more tender, more stringless, and more meaty than either of its parents. It produces the longest pod obtainable in a dwarf, stringless bean. The pods are of a brighter green color, and it is the most prolific variety ever developed. Those wishing to try the Masterpiece Bean this year should order early as we have only a limited quantity for distribution. Pkt., 15c; 1/2 lb., 35c; 1 lb., 60c; 10 lbs., \$5.50.

### Improved Henderson Bush Lima Bean

Since introduced, this fine bean has so rapidly grown in popular favor that our sales far exceed all other bush lima varieties. It is a distinct and valuable improvement over the original Henderson bush lima, the beans being larger and thicker, and there are more beans to the pod; makes a larger growth—so much so that at first it seems as if it would put out runners. It is, however, of the true bush form. It is a larger yielder than other bush limas, being practically loaded down with pods, which are borne from early in the season continuously till frost. Also valuable as a shell bean for winter use. We do not hesitate to recommend it as in every way the best and most prolific of all the bush lima varieties. We give especial attention to the selection and growing of this bean, making special selections from plants which show largest yields. Pkt., 10c; 1/2 lb., 25c; 1 lb., 45c; 5 lbs., \$2.00.

### Palmer's Red Ball Beet

A variety that has gained wide popularity among market gardeners, and one which the amateur may grow with every confidence. It is so uniform in growth that the crop may be lifted practically at one time, yielding the land early and quickly for the second crop. The root is nearly globular in shape, slightly flattened and deep blood-red. So smooth is the skin that when washed the beets look as though they had been polished. The earthy taste common to many beets is absent; instead it is most refined and sweet. The tops are of moderate length only. A most desirable variety for home gardens or the commercial growers. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.



# Vegetable

# Seeds



## Asparagus

One ounce will produce about 200 roots; 3 lbs. will produce enough roots for one acre.

**DIRECTIONS FOR PLANTING.** The most suitable soil for growing Asparagus is a light, sandy loam, reached by an abundance of sunshine, and kept in a good state of cultivation. Sow the seed in the Spring, in rows about 18 inches apart, using about 15 to 20 seeds to a foot of row. Cover with about one inch of soil. By the following Spring the roots will be ready for setting in the permanent bed.

**MARY WASHINGTON RUSTPROOF** (2 years). The best Asparagus to grow. It was introduced by the United States Department of Agriculture and has proved to be a vigorous, productive, rust-resisting variety. Produces long, straight stalks of a rich green color, running darker at the tips. Tender and delicious. **Pkt., 10c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**Palmetto** (2 years). An early Asparagus producing large, thick, dark green stalks with distinctly pointed tips. A reliable variety of widely recognized merit. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**

## Asparagus Roots

Choice 2-year-old Stock

Asparagus roots are planted in trenches 1 foot wide and 6 inches deep. Lay the roots 18 inches apart, taking care to spread the roots well with the crown up. Then cover them with about 4 inches of soil. As the plants begin to grow, gradually fill in the trenches to the surface. They may be planted in either single-row or double-row beds, allowing about 3 to 4 feet between beds in either case. 2-year-old plants, set out in the Spring, will yield tips for use the following Spring; however, it is best to cut sparingly the first season. One-year-old plants should not be cut until the second season.

**PALMETTO.** 25c per doz.; \$1.75 per 100; \$14.00 per 1000.

**MARY WASHINGTON.** 25c per doz.; \$1.75 per 100; \$12.50 per 1000.

## Artichoke

One ounce will produce 500 plants.

**DIRECTIONS FOR PLANTING.** Start the seed in hotbeds during February or March, transplanting later to the open in rows 3 to 4 feet apart. Allow 2 feet between each plant. Mulch with straw during the Winter.

**Green Globe** Cultivated for its undeveloped flower heads, which are served like asparagus. Requires a warm growing season; hence, not successfully produced in the North. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

## Bush Lima Beans

One pound will plant 75 feet of row; 30 pounds per acre.

**DIRECTIONS FOR PLANTING.** Lima Beans require a light, sandy loam and should not be planted until the weather has become warm and settled. Plant them in rows 2 to 3 feet apart, placing the beans (eye down) 4 to 5 inches apart in the rows and cover firmly with two inches of soil. If planted in hills, make the rows 3 feet apart and plant the beans 2 feet apart in the row, using 4 to 6 beans to a hill.

Burpee's  
Bush Lima Beans.

### HENDERSON'S BUSH LIMA

(80 days). If you prefer a small Lima Bean you cannot grow a better variety than Henderson's. It is a vigorous, hardy sort, and produces an early crop of delicately flavored small beans. Pods are 3 inches long and contain 3 to 4 beans. The plants grow about 20 inches high and bear continuously throughout the season. Matures 10 to 14 days earlier than Burpee's. **Pkt., 10c; ½ lb., 20c; lb., 35c; 5 lbs., \$1.40.**

### IMPROVED HENDERSON

A distinct and valuable improvement over the original Henderson. Produces a larger Bean, thicker, and by far more prolific. We highly recommend the Improved Henderson. **Pkt., 10c; ½ lb., 25c; 1 lb., 45c; 5 lbs., \$2.00.**

### Fordhook Bush Lima

(80 days). We highly recommend the Fordhook as best of the so-called "Potato" Limas. The bush has an upright habit of growth, which prevents the pods from coming in contact with the soil, avoiding rust and rot. The pods are borne in clusters of from 4 to 8 pods. The individual pods are about 5 inches long and contain 4 to 5 large, oval-shaped beans. Exceedingly popular with market gardeners in some sections. **Pkt., 10c; ½ lb., 25c; 1 lb., 45c; 5 lbs., \$2.00.**

### Burpee's Improved Bush Lima

(90 days). By far the most superior of the large, flat-seeded Limas. Both pods and beans are of enormous size, some pods measuring 6 inches long. The vines are vigorous and highly productive and the Beans have a luscious flavor. **Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 5 lbs., \$1.65.**



Mary Washington Asparagus.



Henderson's  
Bush Lima Beans.



## Bush Beans

One pound will plant 100 feet of row; 60 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** A warm, well drained, sandy loam, well manured, is the most satisfactory soil for growing Beans. Plant them when the ground has become warm and dry, in rows 18 to 24 inches apart, dropping the beans 3 to 4 inches apart in the row and covering them with about 2 inches of soil. For a succession of green Beans plant every two weeks up to August 1st. Do not cultivate or pick Beans when the bushes are wet, as this promotes rust and blight.

### Best Green Pod Varieties

**FULL MEASURE** (42 days). One of the best of the stringless green-podded snap Beans, and is gaining in favor rapidly. Produces long, straight, fleshy, round pods averaging about 6 inches in length and having a medium green color. It is an early maturing variety and strictly stringless. Many commercial growers are turning to Full Measure and find it a good seller. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Palmer's Masterpiece Stringless** New introduction. See Novelties, page 6.

**BURPEE'S STRINGLESS GREEN POD** (42 days). One of the most valuable green pod Beans. Matures early and yields an abundance of medium-long pods, absolutely stringless, and possessing a tenderness and flavor unequalled. They have a pale green color, are very brittle and juicy, and remain in good condition a long time after reaching full size. The plants have a spreading habit of growth and are enormously productive. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Longfellow** (42 days). A valuable variety for market or home use. Yields round, dark green pods that average 6 inches or more in length, very slender and straight. They are free of tough lining, and until the pods are old, almost entirely stringless. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Improved Red Valentine** (42 days). Our strain is a great improvement over the original as it matures earlier and retains its appearance and quality for a long time after being picked. The plants grow about 15 to 18 inches tall and produce a big crop of Beans about 4 inches long, round-podded, very fleshy and brittle. They do not show strings until nearly full grown. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Bountiful** (42 days). Best of the flat-podded stringless varieties. The rich, green pods are 6½ to 7 inches long, broad, stringless, and of a fine flavor. Bears profusely for a long season. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Giant Stringless Green Pod** (45 days). Matures among the earliest of green pod varieties, producing nearly round pods 5 to 6 inches long that are brittle and stringless. The pods are straighter and more slender than Burpee's Stringless Green Pod, more depressed between the beans and mature a little later. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Black Valentine** (40 days). Popular because of its extreme hardiness and blight-resisting quality. Matures early and produces a good yield of long, round, straight pods that are excellent for market because of their handsome appearance. Will stand more wet weather and frost than other varieties. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**



Bountiful Beans.

### Best Wax or Yellow Pod Varieties

**Brittle Wax** (42 days). Round-podded. White-seeded. Acclaimed by all who know it as the "King of Wax Beans." Yields an enormous quantity of handsome round pods that combine all the qualities wished for in a Wax Bean. Fleshy, absolutely stringless, extremely hardy, and of a rich yellow color. The pods average about 7 inches in length, and have a delightful flavor. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Unrivaled Wax** (42 days). A very desirable extra early, prolific variety bearing beautiful, showy, golden yellow pods, which show their color at an early stage of growth. The pods are nearly 6 inches long, almost round, straight or slightly curved at the end and are brittle and tender. **Pkt., 10c; ½ lb., 25c; 1 lb., 35c; 5 lbs., \$1.50.**

**Improved Rustproof Golden Wax** (40 days). A decided improvement over the old Golden Wax. The bush grows about 12 inches high and is practically free from rust; pods average 5 inches long, are straight, flat, brittle and absolutely stringless. Matures extra early. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Pencil Pod Black Wax Improved** (45 days). This valuable variety yields an enormous crop of pods, measuring 6 to 7 inches long and of a bright golden yellow color. The pods are round, fleshy, stringless and tender. It is an early maturing variety and used extensively. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

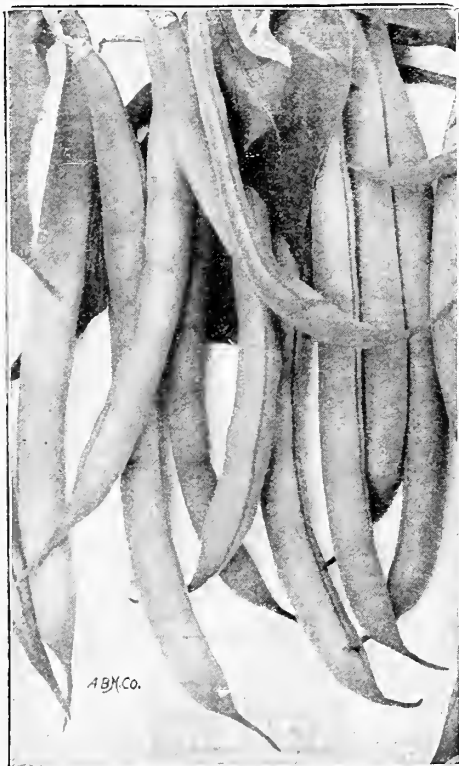
## Shell Beans

**Red Kidney** (60 days). Pods average 5 to 6 inches long, producing an enormous yield of Beans. **Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 5 lbs., \$1.00.**

**White Navy** (75 days). Of dwarf growth and the Beans are clear white and of wonderful appearance. **Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 5 lbs., \$1.00.**

**Horticultural** Large pods, almost stringless. Seed green and red speckled. **Pkt., 10c; ½ lb., 20c; 1 lb., 40c; 5 lbs., \$1.75.**

**Broad Windsor** An English Bean used principally as a dry Bean for winter. **Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 5 lbs., \$1.75.**



Brittle Wax Beans.



## Pole Beans

One pound will plant 100 hills; 30 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** They should be planted about two weeks later than bush varieties, in rows  $3\frac{1}{2}$  to 4 feet apart running north and south. Use poles 8 to 10 feet long and stick them 18 inches deep, slanting to the north. In the hill around each pole plant 5 or 6 beans, about 2 inches deep. When the plants are well advanced, thin out to the four strongest and tie them to the pole.

### Best Green Pod Varieties

**ST. LOUIS WHITE CORNFIELD** (Perfection). (65 days). The leading Pole Bean among the Missouri and Illinois market gardeners. It matures among the earliest varieties and produces a bountiful yield of long, round and fleshy pods in large clusters. The seeds are pure white and are used considerably as shell Beans. We recommend this variety very highly on the strength of its past performance. You will like it. **Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Kentucky Wonder** (Also known as Old Homestead). (65 days). This great pole Bean is the most popular variety grown from the Atlantic to the Pacific. Bears a good crop of magnificent pods 7 to 9 inches in length, combining all the good qualities of a Bean to an unusual degree. While it is slightly stringy it is considered by authorities the best flavored Bean in cultivation. **Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Horticultural Cranberry** A midseason Bean producing straight, flat pods, 5 inches long. Good for shell Beans only, as the pods are not edible. **Pkt., 10c;  $\frac{1}{2}$  lb., 25c; 1 lb., 40c; 5 lbs., \$1.75.**

### Best Wax Pod Varieties

**Golden Cluster Wax** (70 days). We recommend this sort above all other yellow-podded pole Beans. It is a hardy, vigorous growing kind and produces an early crop of light yellow pods 6 to 7 inches long. The pods are straight and flat and the flesh is brittle and of a delicious flavor. From the standpoint of quality and immensity of yield it is above criticism. **Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**KENTUCKY WONDER WAX** (60 days). A yellow-podded Kentucky Wonder producing an abundance of fine quality pods, 8 to 9 inches long, brittle, thick, slightly stringy, but possessing a flavor equaled only by the green pod variety from which it takes its name. **Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

## Pole Lima Beans

One pound will plant 100 hills; 30 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** Best results will be obtained if they are planted in a well manured sandy loam soil, two weeks after warm weather arrives. Use poles 8 to 10 feet long, sticking them 18 inches deep and  $3\frac{1}{2}$  to 4 feet apart each way. Slant them slightly to the north. In each hill plant 4 to 6 beans and when well advanced, thin out to the three strongest plants.

**LARGE WHITE POLE LIMA** (90 days). This highly esteemed mammoth-podded pole Lima is the standard of pole Limas. It has a vigorous growth, is medium early, and very productive. Pods are 4 to 5 inches long and contain 4 to 5 large beans of a wonderful flavor. **Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**Small Sieva Pole Lima** (85 days). Grown extensively throughout the South, but also quite popular in the North because of its earliness and productiveness. The plant is large growing and hardy and the small white beans are about the size of Henderson's Bush Lima. **Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

**King of the Garden** (90 days). An old reliable variety offered as an improvement of Large White Lima. The plants are strong and the uniform, large pods contain 4 to 5 beans of surpassing quality and attractive appearance. **Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.**

## Brussels Sprouts

One ounce will produce 1500 plants or sow 500 feet of row;  
6 ounces will plant an acre.

**DIRECTIONS FOR PLANTING.** Sow the seed outdoors in June, and when the plants are advanced set them out in rows 3 to 4 feet apart, allowing one foot between each plant. The seed may also be sown thinly in rows and thinned out without transplanting. Brussels Sprouts resemble miniature cabbage and grow thickly along the entire length of an upright stalk. Cooked and served like cabbage.

**Long Island Improved** (125 days). Produces a large crop of sprouts of delicious quality. This variety can be grown under less favorable conditions than others and is superior in quality. **Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00.**

## Broccoli

One ounce will produce 2000 plants;  $\frac{1}{4}$  pound will plant an acre.

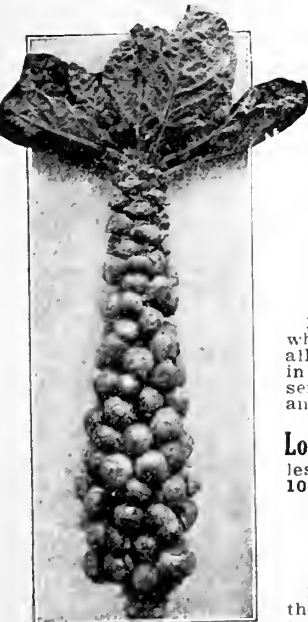
**DIRECTIONS FOR PLANTING.** Closely allied to the cauliflower, though much harder. The heads are taller and more divided. Sow the seed during April and transplant in May into rich ground. Make the rows  $2\frac{1}{2}$  feet apart and allow 18 inches between each plant in the row. **Pkt., 15c; oz., 75c;  $\frac{1}{4}$  lb., \$2.50; 1 lb., \$8.00.**



St. Louis White Cornfield.



Kentucky Wonder Wax



Brussels Sprouts.

## Beets

One ounce will plant 50 feet of row; 6 pounds per acre.

**DIRECTIONS FOR PLANTING.** A well manured, light, sandy loam soil is desired for Beets. For extra early crop sow seed in hotbeds and transplant when weather permits. For main crop sow as soon as the ground is workable in rows 1 to 1½ feet apart, covering the seed with one inch of soil. When the plants acquire 3 or 4 leaves, thin out to 3 or 4 inches apart.

**PALMER'S "RED BALL"** (40 days). This is selected from our Early Wonder, but is given special roguing and extra attention by our growers, resulting in finer appearance, smooth skin and rich color. We recommend "Red Ball" as the earliest and most uniform of the turnip-shaped Beets. For market gardeners we do not hesitate to give it our strongest endorsement. The crop matures evenly and may be harvested at one time. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

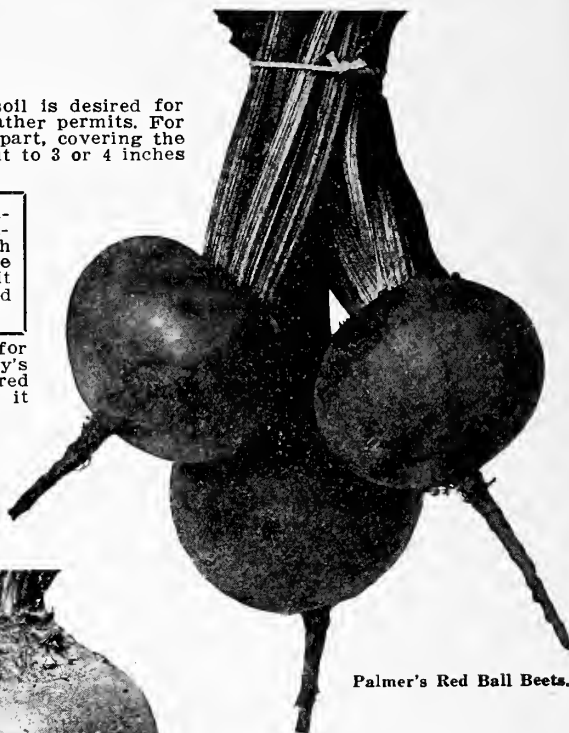
**EARLY WONDER** (40 days). One of the earliest and most perfect Beets for forcing or outside culture. It is much earlier than Crosby's Egyptian and of uniform shape, smooth skin, small tap root and deep red color. The tops are not large, which permits close planting and makes it excellent for bunching. Market gardeners plant more Early Wonder Beets than any other variety. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

**DETROIT DARK RED** (Special Strain). (50 days). Here is a Beet you will like whether you grow for home use or market. Almost globe shaped with small tops and tap roots. The skin is of blood-red color and the flesh dark red. Deliciously tender and for canning it has no superior. An excellent Beet for early or late planting. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

**Nutting Gem** (40 days). **Best for early forcing.** A selection from Early Wonder. It is an extra early, globe-shaped variety of uniform size and deep blood-red color. Smooth skin, tender flesh, and makes very short tops. Being a rapid grower it is especially desirable for forcing and early outdoor culture. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

**Crosby's Improved Egyptian** (45 days). We recommend Crosby's Egyptian as a combination of earliness, good shape, good color and good quality. It is not as flat as Extra Early Egyptian. The color is bright red with slightly lighter zonings, and the flesh is exceedingly tender and sweet. It has the advantage of being fit for market earlier than most Beets, as it forms a turnip shape at very early stage of growth. The tops and tap root are both small. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

**Crimson Globe** (45 days). This is a medium sized Beet, and rather oblong in shape. It is a second-early sort, produces smooth roots and the flesh and skin are both of a very dark color. Tops are small and dark bronze. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**



Palmer's Red Ball Beets.

### Edmand's Early Blood Turnip

(42 days). This well known second early Beet is used universally to follow the extra early varieties and is one of the best for Winter use. It grows with a short top, dark red skin, purple flesh, and the roots are nearly round. We sell more of Edmand's than any other for Winter use. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**



Crosby's Improved Egyptian.

### Extra Early Flat Egyptian

(40 days). One of the very earliest dark red Beets with exceedingly small tops. The roots are distinctly flat and the flesh is a purplish red color and of good

quality. It is somewhat smaller than Crosby's Egyptian and is grown in large quantities for market as well as being popular for home gardeners. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**Long Smooth Blood Red** (65 days). A standard long, late variety with smooth, dark red skin and blackish red flesh. 12 to 14 inches in length, of fine quality and an excellent keeper. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

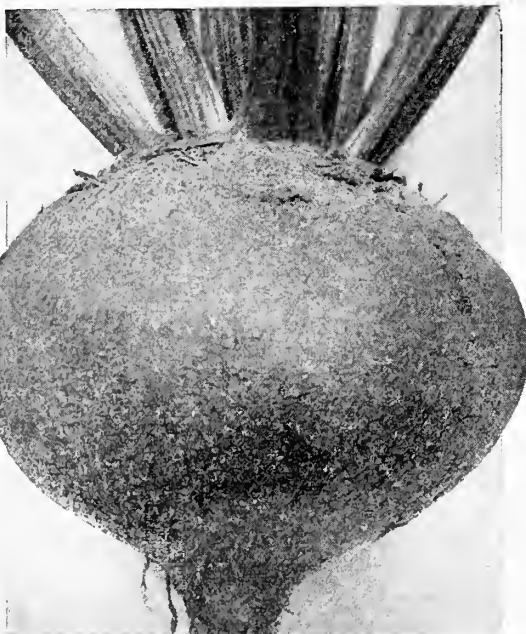
## Sugar Beets

**Vilmorin's Improved Sugar** (90 days). An improvement on White French Sugar, used widely for making sugar. Grows to a large size, has a creamy colored skin and white flesh. High in sugar content. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

## Stock Beets or Mangel Wurzel

**MAMMOTH LONG RED** (115 days). Same as Norbiton's Giant. This sort attains enormous size and will produce 30 to 50 tons of roots to the acre. Roots are cylindrical in shape, light red skin and the flesh varies from white to rose colored. Grows well above the ground. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**Golden Tankard** (95 days). The largest yellow variety, producing immense roots nearly cylindrical in shape and narrowing abruptly at both ends. The skin is deep orange-yellow, and the flesh is zoned yellow and white. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**



Edmand's Early Blood Turnip.

"We had good success with all the seed we purchased from Palmer Seed Company and can say that your seeds are true-to-name and high in germination. Also the Palmer Seed Company is as reliable a seed company as we have ever found." You may use this letter and my name in your advertising if you wish."

GEORGE D. JACOBSMEYER, R. No. 32, Ferguson, Mo.

## Imported Cabbage

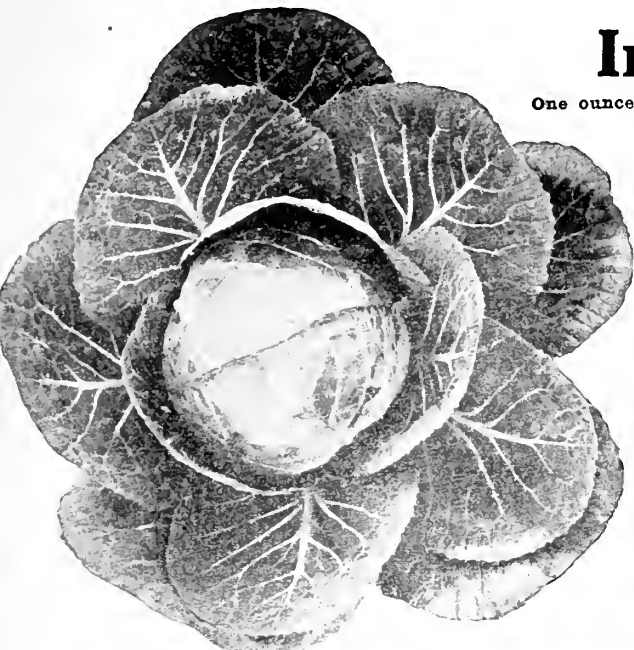
One ounce will produce 2000 plants; 10,000 to 12,000 plants are required to plant an acre.

**DIRECTIONS FOR PLANTING.** Cabbage is best suited to a deep, well drained, heavy loam soil, highly manured. For early use start the seeds in a hotbed about February 1st. Set the plants out in April in rows 2 to 2½ feet apart, allowing 18 inches between each plant in the row. If a hotbed is not available sow the seed in the open ground as soon as it can be worked and transplant in about four weeks. For second-early Cabbage sow the seed in April and transplant in May. For late Cabbage sow the seed in May and transplant in July.

### Best Extra Early Varieties

**NEW GOLDEN ACRE** (Special Strain). (70 days). A wonderfully fine extra early, round-headed variety on the order of Copenhagen Market. The plant is small, very compact, with few outer leaves, and matures earlier than Jersey Wakefield and Copenhagen Market. We can recommend Golden Acre very highly to market gardeners who want an earlier Cabbage than Copenhagen Market and of equal quality. Pkt., 10c; oz., 60c; ¼ lb., \$1.75; 1b., \$6.00.

**COPENHAGEN MARKET** (75 days). Our special strain of this splendid Cabbage has won solid approval wherever it has been used. It is the largest round-headed Cabbage and was the earliest until the introduction of Golden Acre, which is about five days earlier. The heads are large, uniformly round, with few outer leaves, and they all mature at the same time. Will stand a long time without bursting. An excellent and profitable variety for market gardeners. Pkt., 10c; oz., 50c; ¼ lb., \$1.40; 1 lb., \$4.50.



New Golden Acre Cabbage.  
Special Strain.

### Best Second Early Varieties

**GLORY OF ENKHUIZEN** (85 days). A medium early short-stemmed variety with round heads. Similar to Copenhagen Market, but matures later. Grown largely by market gardeners, but equally popular with amateurs who have acquainted themselves with its splendid quality. Pkt., 10c; oz., 50c; ¼ lb., \$1.40; 1b., \$4.50.

**Henderson's Early Summer** (85 days). This is a reliable second early variety making a large, solid, flat head, maturing about ten days later than Jersey Wakefield. Short outer leaves. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1b., \$2.50.

**All Seasons** This variety offered under Disease Resistant Strains on page 12.

**Succession** (90 days). We consider this one of the best sorts for second early crop. Matures a few days later than Early Summer, produces larger heads, becoming solid before they are fully matured, which affords early cutting if wanted. Heads flat. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1b., \$2.50.

**Wisconsin Brunswick** This variety offered under Disease Resistant Strains on page 12.



Glory of EnkhuiZEN.

**Early Jersey Wakefield** (75 days). This fine old variety has long been recognized as the best extra early pointed head variety.

The heads are of medium size, pyramidal in shape, with pointed heads. Its uncommonly fine heading qualities together with its fitness for wintering in cold frames, pleases the most critical gardeners. It has a delicacy of flavor rarely found in other Cabbages. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1b., \$2.50.

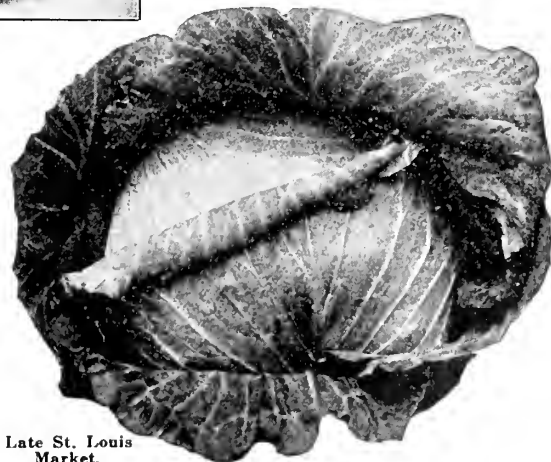
**Large Charleston Wakefield** (80 days). Similar in many respects to the Jersey Wakefield. The heads are much larger, less pointed, but equally as solid. It is a vigorous grower with slightly spreading leaves, and is exceedingly hardy. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1b., \$2.50.

**Palmer's Early Market** (75 days). This splendid variety of Danish origin runs more uniform in type than any other Cabbage. It has a small, short-stemmed plant and produces round, solid heads weighing 5 to 8 pounds. It may be planted closer than other sorts, as the leaves curve inward, thus saving space and at the same time affording protection to the head. Pkt., 10c; oz., 50c; ¼ lb., \$1.40; 1 lb., \$4.50.

### Best Late Varieties

**Palmer's Late Flat Dutch** (110 days). This is without question the best strain of late Dutch being offered. The heads are large and flat and grow remarkably even and solid. Low growing and has few outer leaves. For Winter keeping we do not hesitate to say it has no superior. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1b., \$2.50.

**LATE ST. LOUIS MARKET** (110 days). We recommend this strain as the finest and best late Cabbage, being distinctly different from most other varieties. It makes fine large heads, is short-stemmed and a sure header. The plants are vigorous and hardy and produce large broad leaves, the outer ones inclined to spread, and the heads are uniform, large and solid. It will stand longer in the field without bursting and is recommended for its exceptionally good keeping qualities. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1b., \$2.50.



Late St. Louis  
Market.

The collection of seeds I ordered from you last Spring was fine. Everything turned out nicely and I certainly can recommend Palmer Seeds.—DELLOR ALEXANDER. Hornbeak, Tennessee.

## Cabbage

### YELLOWS RESISTING CABBAGE

**Wisconsin All Seasons** (100 days). This is a second early Drumhead type yielding large sized heads. Short stem; seldom bursts; heavy yielder. Remarkable for its ability to stand hot sun and dry weather. May be planted for early or late crops. **Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.**

**Wisconsin Brunswick** (100 days). Second early, highly resistant to yellows; a heavy yielder; similar in type to Brunswick; very uniform; flat to drumhead shape; short stem; matures about the same time as Wisconsin All Seasons. **Pkt., 10c; oz., 40c; ¼ lb., \$1.00; lb., \$3.50.**

**WISCONSIN HOLLANDER** (120 days). A heavy yielding late storage type selected from Danish Ballhead or Hollander variety; highly resistant to yellows; round head type; color similar to Hollander. **Pkt., 10c; oz., 45c; ¼ lb., \$1.25; lb., \$4.00.**

### Red Cabbage

**Dark Red Erfurt** (60 days). Produces medium size, compact heads and have a deep red color. Heads are usually solid and have a deep red color. This variety is a favorite among those desiring an early maturing red Cabbage, that combines tenderness and good keeping qualities. We recommend it very highly. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

**Mammoth Red Rock** (110 days). The largest and surest heading red Cabbage. Very uniform in size and weight and has a deep red color. The heads grow to weigh about 10 to 12 pounds. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

Plant a Garden This Year—For Economy and Diversion. Special Information and Advice Will be Supplied on Request.



Chinese Cabbage, Chihli.



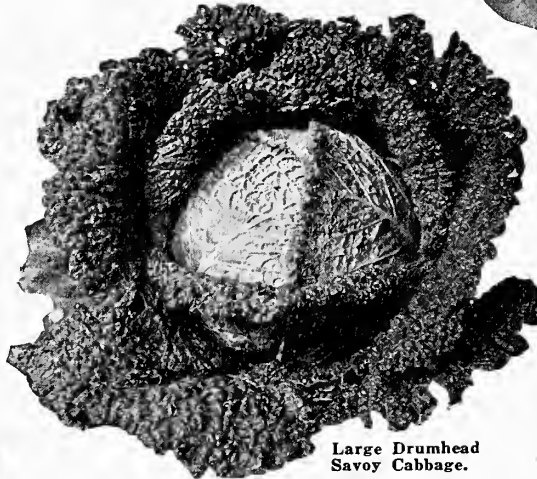
Marion Market.

### Savoy Cabbage

#### LARGE DRUMHEAD SAVOY (Perfection). (110 days).

Few people seem to know the delicious flavor of Savoy Cabbage. Many consider it better than the flat-leaved sorts and it is as tender as cauliflower. This variety is the best and largest heading Savoy, and its plants are strong and vigorous. The heads are round, compact and solid, maturing late. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

**Dwarf Ulm Savoy** (95 days). The heads of this variety are uniform, solid and leaves are beautifully crumpled. It is of dwarf growth, having a short stem and matures earlier than other varieties. The quality is superior to many of the Savoy-leaved Cabbages. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**



Large Drumhead Savoy Cabbage.

### Chinese Cabbage

#### Also Known as Celery Cabbage.

Cool weather is necessary to have success in growing Celery Cabbage. In the vicinity of St. Louis it should be sown about the first of August. Plant the seed one-half inch deep in rows 24 inches apart. When the plants reach a height of 5 inches, thin out to about 10 inches apart. Chinese Cabbage may be served as a salad; delicious when boiled like ordinary cabbage.

**CHIH LI** This variety is becoming more popular every year and is a money maker for market gardeners. Earliest and most sure heading of the Chinese varieties. Plant of upright growth, producing long, solid, white cylindrical heads, two feet in length. Leaves very broad, smooth, fringed on edge, with broad, white mid-rib; superior quality. **Pkt., 10c; oz., 60c; ¼ lb., \$1.75; lb., \$6.00.**

**Wong Bok** (60 days). It produces rather short, broad heads with leaves that are well blanched and tightly folded. Wong Bok is self-folding and the heads need no tying up or blanching. **Pkt., 10c; oz., 40c; ¼ lb., \$1.00; lb., \$3.50.**

### Select Cabbage Plants

We can supply first class Cabbage plants grown from our selected strain of Copenhagen Market, Jersey Wakefield, Golden Acre and All Seasons varieties. 25 for 25c; 100 for 75c; 1000 for \$6.00, postage extra.

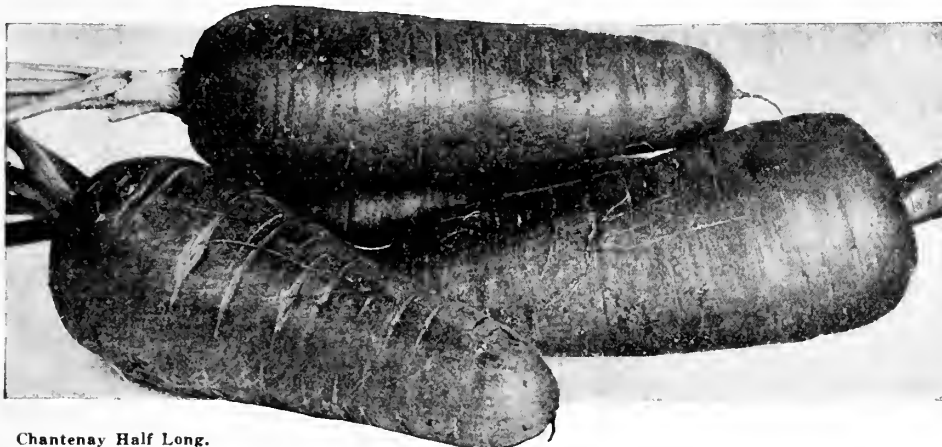
### Frost Proof Cabbage Plants

May be planted earlier than home grown plants without danger of being killed by frost. Copenhagen Market, Charleston Wakefield and All Seasons. 100 for 50c; 1000 for \$3.00. Write for circular on Frost-Proof Plants.

"I had the best garden this year in the neighborhood. In spite of the bad season, your seeds stood the test and I actually gave away more vegetables than some gardeners produced. You can rest assured about our future orders and your catalog is welcome in our home."

R. C. BECK. R. No. 1, Box 35-C, McCarley, Mississippi.





Chantenay Half Long.

## Carrots

One ounce will plant 100 feet of row; 3 to 4 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** Will do well in all soils, although a deep, sandy loam, well manured, will produce the best Carrots. Sow in rows 12 to 15 inches apart and cover with one inch of soil, thinning to 2 or 3 inches apart.

**CHANTENAY HALF LONG** (60 days). (Special Market Gardeners Strain). The selected strain of Chantenay we offer is indeed marvelous. Being a good bunching variety, of handsome appearance and sound flesh, it is the leading sort for market and general purposes. When fully matured the deep, golden orange roots measure 6 inches in length and 2½ inches in diameter; stump-rooted but slightly tapering at the end. The quality is very crisp and tender and of a delicate flavor. Will permit close planting. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

**Red Cored Chantenay** A cross between Chantenay and Nantes, having the color, flavor and size of Chantenay, combined with the smooth skin and coreless characteristics of Nantes. A truly remarkable improvement. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50; 5 lbs., \$11.00.**

**DANVERS HALF LONG** (Special Strain). (75 days). This fine half-long variety commands approval wherever planted. It has a handsome orange-red color and the smooth roots taper to a blunt point. It is principally grown for a late main crop and produces more to the acre than many of the larger varieties. The roots are about 6 inches long and about 2½ inches in diameter at the crown. A favorite. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

**NANTES IMPROVED CORELESS** (60 days). This valuable variety is a handsome, blunt-

ended type, 6 to 8 inches long. The skin is smooth and of a bright orange color. Flesh red, sweet and deliciously flavored. Well adapted for frame use, and a preferred variety for the home garden. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.**

**Orange King** (Coreless). The finest, sweetest, tenderest Carrot for forcing. The most popular Carrot in Holland with market and private gardeners. Can be sown equally well in the open. Roots are half-long, practically coreless, stump-ending, having a very small and fine tap root. Cannot be sufficiently recommended. **Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.50; 5 lbs., \$11.00.**

**Rubicon Half Long** (60 days). An excellent early half-long stump-rooted variety possessing a deep rich orange color, medium sized tops and small neck. The roots are thick at the shoulder, averaging 3 inches in diameter and 5 to 6 inches in length. Grown extensively for bunching. A popular sort among market gardeners. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

**Oxheart or Guerande** (70 days). The roots are about 4 to 5 inches long and about 2½ inches in diameter at the top. The color is a light bright orange and the quality is delicious. A good Carrot for heavy, stiff soil where longer varieties will not do well. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

**Long Orange** (75 days). An excellent intermediate variety producing roots about 12 inches long and 3 inches broad at the crown. They are uniform in size, smooth, tapering gradually, and of rich deep orange colored flesh. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 95c; 5 lbs., \$4.50.**

## Carrots for Stock Feeding

4 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** Plant in May or June, sowing the seed in drills 3 feet apart. Thin out to stand 6 inches apart in the row.

**Large Yellow Belgian** (80 days). A mammoth yellow sort and very productive. The roots grow 12 to 16 inches long, very thick and grow about one-third above the ground. This is considered by stock feeders to be the most nutritious variety. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**Large White Belgian** Like the Yellow Belgian in all respects except color. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**



Nantes Improved Coreless.



Danvers Half Long.

## Celery

One ounce will produce 3000 plants;  $\frac{1}{4}$  pound will plant an acre.

**DIRECTIONS FOR PLANTING.** Celery may be started early in cold frames or indoor boxes, or, when the weather becomes warm, plant outdoors in rows 8 to 10 inches apart, covering the seed one-half inch. When plants are advanced, thin out to 5 or 6 inches apart until ready for transplanting into trenches. In July set the plants in shallow trenches 3 feet apart, plants 6 inches apart in the row. Draw the earth around plants gradually to blanch, but avoid getting dirt into the heart and do not work while wet.

**New Golden Plume** (105 days). This new introduction is unquestionably the outstanding Celery on the market. It is a new type selected from Golden Self-Blanching, fully a week earlier, producing a semi-dwarf plant of vigorous growth. It has wider leaves, thicker stems, and a full heart that bleaches quickly to a rich golden yellow. More resistant to blight and rust. The quality and appearance of Golden Plume will make a hit with anyone who plants it. **Pkt., 10c; oz., 75c;  $\frac{1}{4}$  lb., \$2.50; lb., \$8.00.**

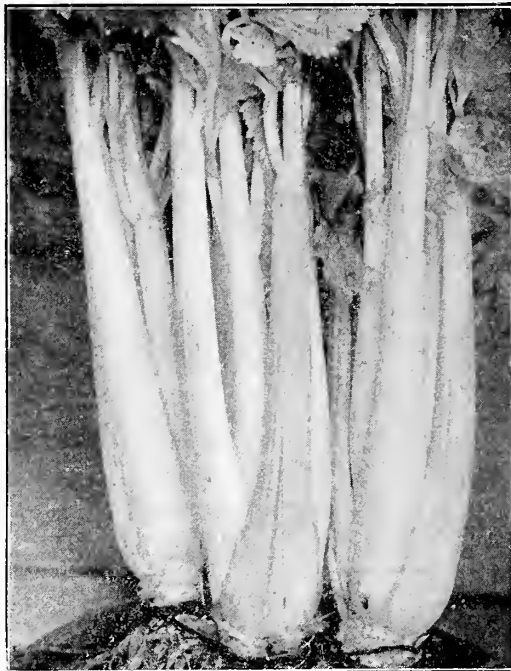
**Golden Self-Blanching** (110 days). This excellent dwarf to medium variety is the favorite golden yellow among both market gardeners and home gardeners. It grows 18 to 20 inches in height and produces large bunches with broad, heavy stalks and delicately rich flavor. Splendid keeper. Our selected strain of Golden Self-Blanching has never failed to satisfy its users, which is due to the fact that our grower puts the best of his efforts behind its culture. **Pkt., 10c; oz., 50c;  $\frac{1}{4}$  lb., \$1.40; 1 lb., \$4.50.**

**SANFORD EASY BLANCHING** (115 days). One of the earliest varieties to mature and the easiest and quickest to blanch. The plants are exceptionally strong and stocky, with bright rich green foliage, the inner leaves showing a slight tinge of yellow. Its especially tender stalks are sweet and crisp and in appearance it ranks among the most attractive. **Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50.**

**White Plume** (110 days). This is recognized everywhere as the best White Celery. It has a vigorous habit of growing and its large, uniformly white stalks are crisp and tender. Not only does the stem whiten, but the leaf itself, especially the inner leaves. While it is not recommended as a keeper it is highly prized for early use and has excellent marketable qualities. **Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50.**

**NON-GERMINATING SEED—For Cooking Uses Only**

**Flavoring Celery** Used by all good housewives for flavoring soups, pickles, etc. **Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c.**



New Golden Plume Celery.

## Celeriac or Turnip Rooted Celery

**Giant Prague** Grown exclusively for its roots, which are turnip-shaped, very smooth, tender, and marrow-like. The roots are cooked and sliced. When eaten with vinegar, they make an excellent salad. Also used for seasoning meats and flavoring soups. **Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; 1 lb., \$2.50.**

## Superb Cauliflower

One ounce will produce about 3000 plants;  $\frac{1}{4}$  lb. per acre.

**DIRECTIONS FOR PLANTING.** Rich, moist soil and an abundance of water are necessary for Cauliflower. Heavy manuring and high culture will prove very profitable. Start the seed in a hotbed in January or February. Transplant into a cold frame 2 or 3 inches apart each way until safe for transplanting outdoors. When weather is right set in field 2 to 2 $\frac{1}{2}$  feet each way. To keep up a continuous and rapid growth use Nitrate of Soda cautiously, working it in around the plant and not allowing it to come in contact with the foliage. When the flowers are heading tie up the outside leaves loosely over the head to protect it from the sun. For late Autumn crop sow seed in June and transplant in July.



Peerless Snowball Cauliflower.

## Palmer's "Snow King"

**A Wonderful New Cauliflower**

An entirely new and better strain of Cauliflower from Denmark. It is healthier and more vigorous than other varieties, more resistant to adverse weather, and yields a much higher quality under ordinary conditions.

Palmer's "Snow King" starts to head through the field at practically the same time, is quite a bit earlier than standard Snowball or Erfurt. The flowers at maturity average 10 inches in diameter. **Pkt., 25c;  $\frac{1}{2}$  oz., \$3.00; oz., \$5.00.**

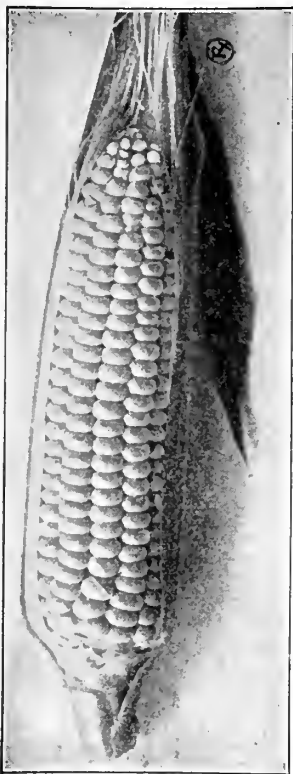
## Peerless Snowball

Until the introduction of Super Snowball the Peerless was our leading strain. It is a strong, vigorous grower and produces high quality flowers of excellent appearance, producing as high as 95 per cent perfect heads. Very resistant to adverse conditions.

**Pkt., 15c;  $\frac{1}{2}$  oz., \$1.50; 1 oz., \$2.50;  $\frac{1}{4}$  lb., \$3.00; 1 lb., \$25.00.**

**Extra Early Dwarf Erfurt** (95 days). Before the introduction of Palmer's Peerless Snowball, Extra Early Dwarf Erfurt was our leading early variety. Very fine short-stem sort, producing large, compact heads, free from blight. One of the best kinds. We import this strain from Germany and have always been complimented on its superior qualities. **Pkt., 15c;  $\frac{1}{2}$  oz., \$2.50; oz., \$4.00;  $\frac{1}{4}$  lb., \$15.00; 1 lb., \$50.00.**

**SELECT CAULIFLOWER PLANTS.** Grown from our best Early Snowball and Early Erfurt seed. **Doz., 20c; 4 doz., 75c; 8 doz., \$1.20; 500, \$5.00; 1000, \$9.00.**



Golden Sunshine Sweet Corn.

## Sweet Corn

One pound will plant 100 hills or 250 feet of row; 12 to 16 pounds will plant an acre in hills.

**DIRECTIONS FOR PLANTING.** Any good garden soil will produce fine corn. Plant after all danger of frost is over in hills 3 feet apart, dropping 4 to 5 grains to the hill; thin out to 3 best plants. For succession plant every 2 weeks up to July 15th.

### Best Early Varieties

**GOLDEN SUNSHINE SWEET CORN** An Earlier Golden Bantam. In Golden Sunshine we have a new yellow corn which will come in the market a week or ten days earlier than Bantam, competing with the extra early white varieties, and which will be gone before Bantam is ready to eat. The plant growth is more dwarf than Bantam and the ears set closer to the ground. The ears are as large, measuring  $6\frac{1}{2}$  to 7 inches and 12 instead of 8 rowed. Of fine golden-yellow color, exceptionally sweet and sugary. Prices, pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 10 lbs., \$2.75.

**Golden Bantam** (60 days). An extra early favorite for the home gardener and the market gardener. Its popularity increases each year. The ears are a golden yellow color, 6 to 7 inches long and have a rich, sweet, butter-like flavor. The plants reach a height of about 5 feet and usually produce two ears with 8 rows of broad, deep kernels each. To particular people who want the most delicious of all Sweet Corn we recommend Golden Bantam without hesitancy. Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 10 lbs., \$2.25.

**Howling Mob** (65 days). A fine, large-eared sort for either home gardens or market. It is one of the best flavored and most tender of all early varieties. Its ears measure from 7 to 9 inches in length and are set with 12 to 14 rows of large, white grains. It is a vigorous grower, very productive, and makes an excellent marketable crop immediately following Golden Bantam. Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.

**Mammoth White Cory** (65 days). One of the very earliest and the best of all early, white, Sweet Corns. The ears are 10 to 12-rowed, 7 to 8 inches long, and possess a sweet, delicious flavor. Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.

**Extra Early Adams** (52 days). Not a sweet corn. While this is not a real sweet corn it is grown considerably for early use by market gardeners. It is very hardy, will permit early planting; ears are 7 to 8 inches long, 12-rowed. It has a good, sweet flavor, and is very tender if used while young. Pkt., 10c;  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 10 lbs., \$1.50.

**Adams' Early** (65 days). Not a sweet corn. However, it is grown extensively all over the country for market. Similar to Extra Early Adams, but 2 weeks later. Ears are about 8 inches long, 12 to 14 rows and of a fair quality. Pkt., 10c;  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 10 lbs., \$1.50.

**Palmer's Early Table** (60 days). This is our special extra early table corn, which can be planted while not a real sugar corn it is a valuable substitute and grown extensively for early market by commercial growers. Ears are longer than Adams' Early. Pkt., 10c;  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 10 lbs., \$1.50.

### Best Medium Early Varieties

**COUNTRY GENTLEMAN** (Shoe Peg). (70 days). This old reliable sort is always in demand by people who like good corn. The ears are large, with long, slender, white grains and a small cob. Has a delicious, sweet, tender and milky quality and "stays in the milk" longer than most varieties. Ears 7 to 8 inches long. Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 10 lbs., \$2.75.

**Golden or Bantam Evergreen** (70 days). A cross between Golden Bantam and Stowell's Evergreen, and indeed a most excellent sort of fine quality. The golden yellow colored ears are 8 inches long, bearing 12 to 14 rows of broad, deep and deliciously sweet kernels. This comparatively new corn is a winner and is acclaimed everywhere for its Stowell's Evergreen size and Golden Bantam quality. Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.

**Early Evergreen** (70 days). This variety resembles Stowell's Evergreen but matures 10 days earlier. Produces very large ears with deep narrow grains which are tender and sweet. The ears are slightly slimmer and shorter than Stowell's. 14 rows of grain to the ear. Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 10 lbs., \$2.75.

### Best Late Varieties

**STOWELL'S EVERGREEN** (80 days). This famous variety is the standard and best known Sweet Corn on the market. It produces large ears, 8 to 9 inches long, and usually having 16 to 18 rows of very deep, sweet kernels. The delicious flavor of this corn immediately commands approval and it has the advantage of keeping better than other varieties. Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.

**Black Mexican** (75 days). Well known and a favorite in many sections. The kernels have a bluish tinge when ready to eat, later turning to black. It is one of the sweetest varieties in cultivation and produces ears 8 inches long and having 8 rows of kernels. Pkt., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.

## Pop Corn

One ounce will plant 40 feet of row; 4 lbs. will plant an acre in rows.

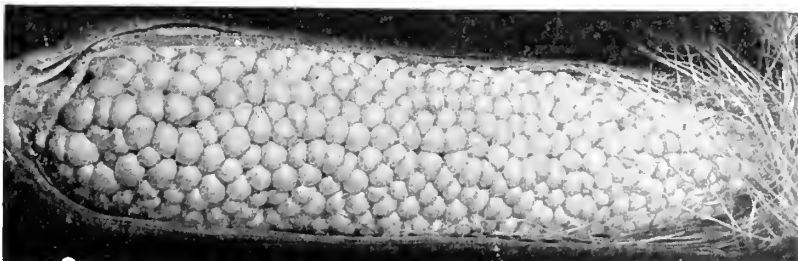
**DIRECTIONS FOR PLANTING.** Sow the seed early in the Spring in rows about 3 feet apart. Cover the seed 2 to 3 inches and thin out later, leaving the plants 10 to 12 inches apart in the row.

**Japanese Hulless.** (130 days). Pkt., 5c;  $\frac{1}{2}$  lb., 15c; 1 lb., 20c; 10 lbs., \$1.50.

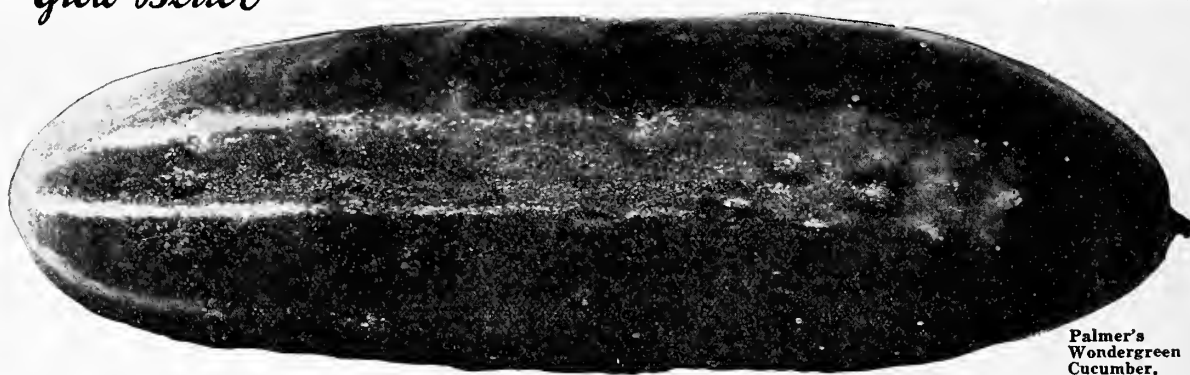
**White Rice.** (130 days). Pkt., 5c;  $\frac{1}{2}$  lb., 15c; 1 lb., 20c; 10 lbs., \$1.50.



Stowell's Evergreen Sweet Corn.



Country Gentleman Sweet Corn.



Palmer's  
Wondergreen  
Cucumber.

## Select Cucumbers

One ounce will plant 50 hills; two pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** Cucumbers thrive best in a rich, sandy soil, but do well in any good garden soil, especially if fertilized. Plant as soon as the weather permits, in hills about 4 feet apart each way, placing 10 to 12 seeds to a hill and covering with one-half inch of soil. Thin out to 3 or 4 strong plants to a hill. If a succession is wanted, sow every 10 or 15 days up to July 1st. For pickles sow from June 15th to July 1st. Always pick Cucumbers as they reach full size, else they lower the productivity of the vine.

**Note.**—As soon as bugs appear, start dusting with Sodium Fluosilicate, mixed one pound to 5 pounds hydrated lime.

### PALMER'S WONDERGREEN

EARLY, PRODUCTIVE, GOOD COLOR, SYMMETRICAL. IT WILL STAY GREEN.

Palmer's Wondergreen is the earliest of the White Spine types, producing a tremendous yield of fruit 7 to 8 inches long, cylindrical in shape, and of a rich dark green color. In productiveness, flavor, appearance and all around good quality it cannot be surpassed. In addition to these very desirable qualities its outstanding point is that IT WILL STAY GREEN longer than any other variety. This makes it valuable for long distance shipping and general market use. We recommend it very highly to market gardeners who are looking for a Cucumber that will pay bigger profits. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25; 5 lbs., \$5.75.

**Davis Perfect** (50 days). An excellent Cucumber for both outdoor use and for indoor forcing. Its distinguishing features are length, slimness, beautiful dark green color, and its delicious flavor and crispness. The fruits measure 7 to 9 inches long and 7 inches in diameter in the middle, slightly tapering at both ends. It resists blight better than others. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.

**LONGFELLOW or VAUGHAN** (New). An excellent long, slender, dark green variety, equally desirable for greenhouse forcing or outdoor culture. As a dependable straight-pack variety for shipping it is fast becoming a popular variety with market gardeners. Also ideal for the home garden. Cucumbers average 12 to 14 inches in length and 2½ inches in diameter. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00; 5 lbs., \$9.50.

**Klondike** (60 days). A medium early, dark green strain of White Spine. Fruits are very attractive, rather thick and short, tapering abruptly at both ends. Holds its color well but only fairly productive. The average size is 6 to 7 inches long and about 2½ inches in diameter. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., 90c; 5 lbs., \$4.25.

**Early Fortune** (55 days). Thousands of gardeners consider Early Fortune the finest type of White Spine ever produced. It is an early sort, growing fruits that are 9 inches long and 2½ inches in diameter. It has a fine dark green color which it retains a long time after picking. The flesh is firm and crisp and flavor most delightful. It is vigorous and very productive, and surprisingly resistant to disease. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.

**London Long Green** (65 days). A selection from the standard sort. The fruits are 12 to 14 inches long, with a deep green skin and solid, crisp flesh. The young Cucumbers make excellent pickles. Turn yellow at maturity. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.

**Arlington White Spine** (5 days). This Cucumber is a beautiful, uniform, straight type measuring about 7 to 10 inches long. It grows straight and has a rich, dark green color. It is firm, tender and has a delicious flavor. A prolific producer and a surpassing market variety. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., 90c; 5 lbs., \$4.25.

**SNOW'S PICKLING** An early maturing, very small, dark green Cucumber, cylindrical, square ended, and very popular with growers for small pickles. We believe the seed we offer meets in all respects the requirements of those who want a bottle pickle. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.

**EXTRA LONG EVERGREEN WHITE SPINE** (55 days). Similar to Davis Perfect but somewhat thicker. The fruit is straight, well formed, measuring 10 to 12 inches long and about 2½ inches thick, and of a beautiful dark green color. Very handsome. It is a big yielding sort, resists blight where others fail, and is particularly desirable for shipping to distant points. Holds its color. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., 90c; 5 lbs., \$4.25.

**Chicago Pickling** (Westerfield's). (60 days). Many prefer this pickling Cucumber to any other because of its uniform size, color and shape. The fruits measure about 6 inches long at maturity and about 2½ inches in diameter. Very productive. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.

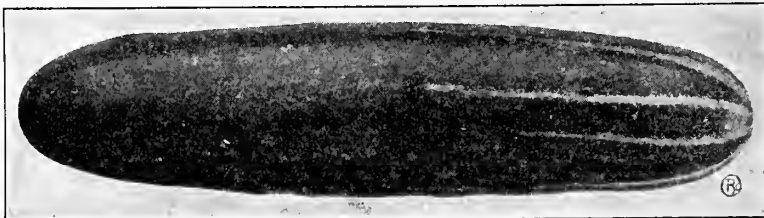
**Small Gherkin** (Burr). (80 days). A small burr-covered variety used exclusively for pickles. Color light green, size 2 inches long and 1½ inches thick; oval shape. Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50; 5 lbs., \$7.00.

#### Early Green Cluster Pickling

(50 days). Very early and one of the best for small pickles. The fruits are small, short and chunky and grow in clusters in the center of the plant. Size about 5 inches long and 2½ inches thick when full grown. Color light green. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., 90c; 5 lbs., \$4.25.



Snow's Pickling Cucumber.



Longfellow Cucumber.



Black Beauty  
Eggplant.



## Eggplant

One ounce will produce 1000 plants.

**DIRECTIONS FOR PLANTING.** Start the seeds in a hotbed during February, using a light, rich soil. If no hotbed is available, use an indoor box placed by a window reached by sunlight. When the weather becomes warm and settled, transplant in the open so the young plants will stand 2 to 2½ feet apart each way.

**New York Improved Purple** (130 days). A beautiful large, oval, deep purple variety, grown more extensively than any other sort. Its distinguishing features are that it is entirely spineless and produces from 6 to 8 fruits of a wonderful quality. The plant is low-growing with a vigorous, branching habit. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.**

**BLACK BEAUTY** (120 days). The earliest and best, coming in about 10 days ahead of New York. It is a prolific producer of large fruits that are perfectly spineless and smooth. It has a beautiful rich purple color and the quality is exceptional. Bears continuously until frost. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.**

## Endive

One ounce will plant 200 feet of row; 3 lbs., will plant an acre.

**DIRECTIONS FOR PLANTING.** Endive will thrive in any good garden soil. Sow the seed for early use about April 15th in rows about 1½ feet apart, covering the seed lightly. When the plants are 2 or 3 inches high thin out or transplant to about 1 foot apart. Before gathering blanch for about 2 weeks to make them crisp and tender. For a Fall crop sow in June or July.

**Broad-Leaved Batavian** (Escarole). (45 days). One of the best varieties for salads. The bright green leaves are large and broad, more or less twisted and waved, with nearly white mid-ribs. The inner leaves make a well-rounded head which bleaches white. While its principal use is for salads, it can also be boiled and eaten like Spinach. Heads measure 16 inches in diameter. **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.**

**GREEN CURLED** (40 days). Furnishes an attractive and appetizing salad for the Fall and Winter months. This variety is the most hardy and vigorous of any. The leaves are fine cut, giving the plant a feathery, moss curled appearance. The piquant flavor and tender crispness of Green Curled are relished by all who have tried it. Heads average 15 inches wide. **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.**

**White Curled** (35 days). A very handsome sort with leaves finely curled or mossed, and light green in color. It blanches easily and the crisp, tender leaves are truly delicious. **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.**



Green Curled Endive.

## Corn Salad

(OR FETTICUS)

One ounce will plant 100 feet of row; 5 lbs. will plant an acre.

**DIRECTIONS FOR PLANTING.** Sow the seed in rich soil at the first opening of Spring in rows 1 foot apart and cover with ½ inch of fine soil. Thin plants to 6 inches apart in the row. For Winter and early Spring use sow in drills during August and September.

**Large Broad-Leaved** (42 days). A hardy Winter salad, the leaves being much used in the Winter in place of lettuce. Very appetizing. **Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c.**

## Cress

### Extra Curled Cress or Peppergrass

(20 days). This sort grows very quickly and is used for garnishing. The leaves are much curled and have a desirable pungent taste, often being served with lettuce. **Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c.**

**Water Cress** (40 days). This is a hardy plant and must be grown along the edge of a shallow running stream or pond of fresh water. Seeds should be started in a box of moist earth and the plants set out in the water when they are well advanced, after which they will grow without further care. Also used as a salad. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.**

## Chervil

The leaves are used for flavoring and garnishing the same as parsley. Sow the seed in the Spring in well prepared ground, making the rows 1 foot apart. Cultivate like parsley. **Pkt., 5c; oz., 30c; ¼ lb., 85c; lb., \$2.75.**

## Chicory

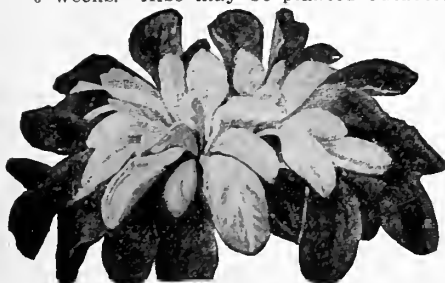
One ounce will plant 100 feet of row; 4 pounds will plant an acre.

Sow the seed in May or June in rows 2 feet apart and cover with ½ inch of soil. Later thin out to 6 inches apart and cultivate like carrots. In the Fall take up the roots, trim the leaves off to 2 inches of the crown and shorten the roots, at the base, to a length of about 9 inches. Place them upright in a box with 2 inches of soil at the bottom and cover with 6 inches of sand or light earth. Water once a week. The sprouts will be ready in 5 or 6 weeks. Also may be planted outdoors in trenches and forced like asparagus.

**Witloof** (Also known as French Endive). (150 days). Used in increasing quantities each year as a salad. Forms leaves like Cos lettuce, but its beautiful creamy white sprouts have a flavor not found in ordinary lettuces. Considered a rare delicacy and usually found only in the best hotels and restaurants; can easily be grown in the home garden. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.**

## Collards

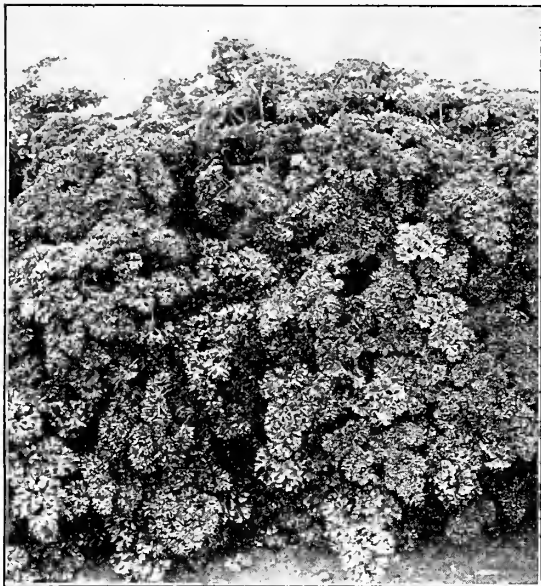
**Georgia or Southern** (45 days). A member of the cabbage family producing an enormous quantity of large cabbage-like leaves that are cooked and served as "greens." Sow the seed in rows 2 feet apart early in the Spring, and later thin out so the plants stand 1 foot apart. Used extensively throughout the South. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**



Corn Salad.



Witloof Chicory.



Blue Curled Scotch Kale.

## Kale

One ounce will sow 200 feet of row; 4 lbs. will plant an acre broadcast. **DIRECTIONS FOR PLANTING.** Any good garden soil will grow Kale successfully. For Spring crops sow the seed in August and September and cover with straw for the Winter. For a late Fall crop sow the latter part of June. The general method is to broadcast but the seed may also be sown in rows 1 to 1½ feet apart and covered firmly with ½ inch of soil. When the plants are large enough thin out to about 18 to 24 inches between each plant.

**NEW BLUE CURLED SCOTCH** (Dwarf Norfolk Strain). (50 days). The plant of this fine Kale is low and compact, and of a spreading habit. The attractive leaves are finely curled and have a rich bluish green color. It is extremely hardy and is tender and delicately flavored. This is the Kale we have been wanting to sell for a long time but could not get the right strain until recently. A wonderful sort for the commercial grower. It is the earliest of all. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.**

**DWARF GERMAN GREEN or SIBERIAN** (60 days). We consider our strain of this excellent variety far superior to the average sold under the name of Dwarf German Green. Our customers make hundreds of good reports about it each year. It is a low-growing, vigorous sort, of spreading habit. The leaves are large and beautifully curled and have a bluish green color. For hardiness and productiveness we can give this variety our highest recommendation. Much in demand for both Spring and Fall sowing. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 65c; 5 lbs., \$3.00.**

**Tall Green Curled Scotch** (60 days). The plants grow to a height of about 3 feet, producing long, finely curled and handsomely fringed leaves of green color. Resembles ostrich plumes very much. A hardy variety and very productive. **Pkt., 5c; oz., 15c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**Ostrich Plume or Semi-Dwarf** (60 days). An extremely popular variety for the market gardener. Plant is low and compact but has large, bright, deep green leaves that are curled, cut and crimped until the whole plant resembles an ostrich plume. Grows not over 12 inches high. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

## Kohl-rabi

One ounce will plant 200 feet of row; 3 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** Kohl-rabi succeeds in a rich loam soil and responds quickly to good cultivation. Sow in Spring in rows about 12 to 18 inches apart, covering seed firmly about ½ inch. When reasonably advanced thin out to stand about 6 inches apart. Or start seed in hotbeds about February 15th and transplant in the open when the weather is safe. For Fall use sow the latter part of July.

**WHITE VIENNA SHORT LEAVED** (50 days). A very select early variety; smooth skin, and having only a few short leaves. Bulbs are of medium size, crisp and tender, and have a delicious flavor. A good variety for forcing, and well adapted for sowing early in hotbeds and transplanting later to the open. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

**Early Purple Vienna** (60 days). Resembles White Vienna in flavor and quality, but matures a few days later and is more resistant to heat. Leaves and stems purplish; root purplish with white flesh. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

## Kohl-rabi Plants

**WHITE VIENNA SHORT LEAVED.** 25 for 25c; 100 for 75c.

## Fresh Herb Seed

Most herbs thrive best in sandy soil. It should be carefully prepared and cultivated as the young plants are delicate and easily crowded out by weeds. Sow as early as ground can be worked in rows 16 to 18 inches apart, making sure soil is fine and pressed firmly over seed. Most herbs should be cut when in bloom, wilted in the sun, and thoroughly dried in the shade.

**ANISE** (Annual). Used for garnishing and flavoring and also for medicinal cordials. **Pkt., 10c; oz., 20c.**

**BALM.** Used for making Balm Tea and Balm wine. **Pkt., 10c; oz., 50c.**

**BASIL, Sweet** (Annual). The leaves are used for flavoring soups and sauces. **Pkt., 10c; oz., 20c.**

**BORAGE.** (Annual). Used as a pot herb and for bee pasturage. Leaves are used in salads. **Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.**

**CARAWAY.** (Annual). The leaves are used to flavor soups and liquors, and the seeds for flavoring cakes, pastry, etc. **Pkt., 10c; oz., 15c.**

**CARDOON.** Stalks are blanched like celery and used for salads and soups. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50.**

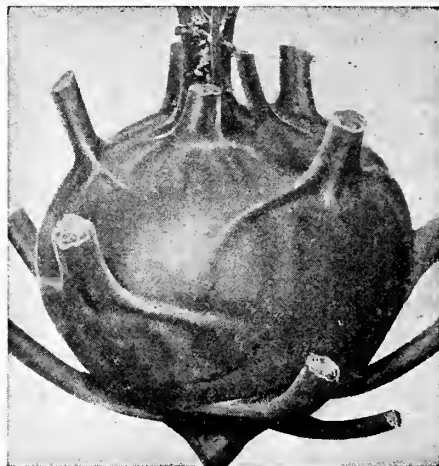
**CATNIP or CATMINT.** (Annual). Grown for bee pasturage and for flavoring foods. **Pkt., 10c; oz., 60c.**

**CORIANDER.** (Annual). The seeds are used in confectionery and to disguise the taste of medicines. **Pkt., 10c; oz., 20c.**

**DILL.** (Annual). The leaves are used for flavoring soups, sauces, etc., and for making pickles. The seeds are also used for seasoning. Possesses some medicinal properties. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

**FENNEL, Sweet.** (Perennial). The leaves are used for flavoring and garnishing and the seeds are used in confectionery. Also in various medicinal preparations. **Pkt., 10c; oz., 20c.**

**FENNEL, Florence.** (Annual). An excellent salad plant and is also used boiled. **Pkt., 10c; oz., 20c.**



White Vienna Short Leaved Kohl-rabi.

**HOBBEHOUD.** (Perennial). Leaves used in the preparation of cough medicines and for flavoring. **Pkt., 10c; oz., 30c.**

**HYSSOP.** (Perennial). Used in the manufacture of teas for medicinal purposes. **Pkt., 10c; oz., 30c.**

**LAVENDER.** (Perennial). The leaves are occasionally used for seasoning, but the flowers are used in perfumes. **Pkt., 10c; oz., 30c.**

**MARJORAM, Sweet.** (Annual). Leaves are used for flavoring broths, dressing, etc. **Pkt., 10c; oz., 25c.**

**ROSEMARY.** (Perennial). Leaves are used for flavoring meats and medicinal drinks. **Pkt., 10c; oz., 35c.**

**PEPPERMINT.** (Perennial). The leaves and stems are used for flavoring and for making peppermint extracts. **Pkt., 25c.**

**SAGE.** (Perennial). Used extensively for seasoning and also believed to possess medicinal properties. **Pkt., 10c; oz., 25c; ¼ lb., 90c; 1 lb., \$1.50.**

**SUMMER SAVOY.** (Annual). The dried stems, leaves and flowers are used for seasoning. **Pkt., 10c; oz., 20c.**

**TARRAGON.** (Perennial). The leaves, fresh or dried, are used in preparing pickles, vinegar, etc., and for flavoring foods. **Pkt., 25c.**

**THYME.** (Perennial). Used for seasoning and for making tea to relieve nervous headaches. **Pkt., 10c; oz., 50c.**

**WORMWOOD.** (Perennial). Leaves used as a tonic and as a dressing for bruises. Also planted in poultry yards. **Pkt., 10c; oz., 30c.**

# Lettuce

One ounce will plant 125 feet of row; 100 square feet broadcast, or produce about 3000 plants. 2 to 3 pounds will plant an acre in rows.

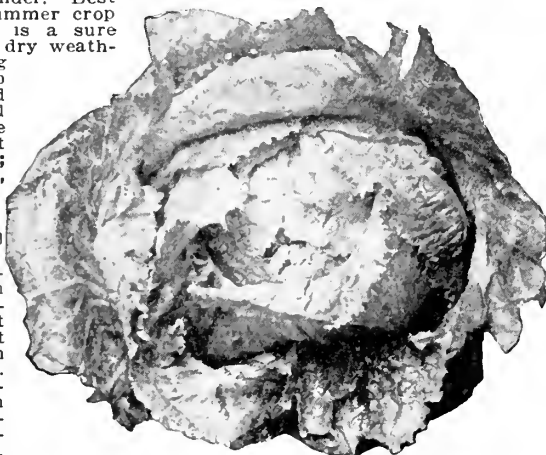
**DIRECTIONS FOR PLANTING.** A good soil for lettuce is one mixed with well-rotted stable manure. Sow the seed as soon as ground can be worked in rows 1 foot apart for hand cultivation; 20 inches apart for horse cultivation. When plants are reasonably advanced thin out so they stand 8 inches apart for heading. For early varieties sow the seed in hotbeds about March 15th and transplant when seedlings are about 2 inches high in cold frames, setting the plants 4 inches apart each way. Transplant to the garden about May 1st. For Fall crop sow in July and August.

**PALMER'S NO. 20** (40 days). An early, medium sized variety forming handsome, compact heads. It has a very attractive appearance, excellent quality and forms leaves that are crumpled and blistered. The inner head blanches a rich, buttery yellow. Heads mature quickly. Market gardeners find this a profitable variety for early sowing, both in hotbeds and in the open ground. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**Selected Big Boston** (45 days). The most popular Lettuce for outside culture as well as cold frame forcing. Produces large, compact heads with smooth broad leaves, waved at the edge, and crisp. The leaves have a bright green color, slightly tinged with brown on the margins. Big Boston is used more for market and shipping than any other Lettuce, being a specialty with southern growers who ship North. We have an exceptional strain of this quality Lettuce. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**New York or Wonderful** (Also known as Los Angeles). Many Pacific Coast growers ship this variety East under the name of Iceberg, but it is a distinct variety from Iceberg. The heads of this superior Lettuce are closely folded and grow to an enormous size, sometimes 15 inches in diameter. The outer leaves tightly overlap and have a rich dark green color, while the inner portion is beautifully blanched, the quality being crisp and tender. Best adapted for a main Summer crop and for shipping. It is a sure header, will resist hot, dry weather and will stand a long time without going to seed. We recommend New York Wonderful very highly for home gardeners and market gardeners. **Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.50.**

**UNRIVALED** (36 days). Preferred by many growers to white-seeded Big Boston, over which it is an improvement. It produces large, solid, light green heads that do not show the reddish brown tinge of Big Boston. Its chief merits are being 10 days earlier than Big Boston and not subject to burn. A valuable Summer variety, and it does well in the Middle West. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**



Palmer's Black-Seeded Forcing.

**Early Curled Simpson** (40 days). An early, loose heading, erect variety of fairly large size. The leaves are light green, broad, well crumpled and frilled at the edges. May be sown very thick and cut while the plants are very young, at which time they are exceedingly tender and well flavored. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**Black-Seeded Simpson** (40 days). One of the best and most desirable large, early, loose-heading varieties; succeeding everywhere and always dependable. The leaves are light yellowish green, broad, crumpled and frilled. The quality is very crisp and appetizing. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

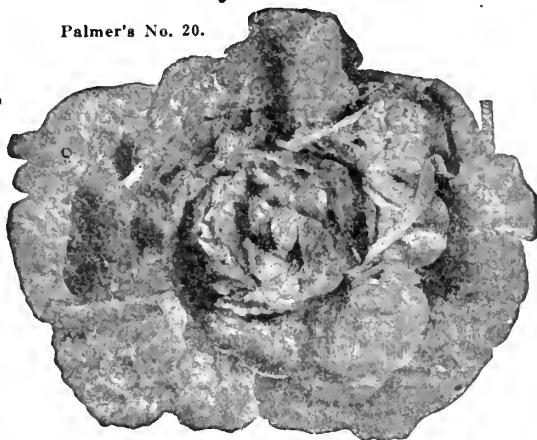
**Prize Head** (45 days). Grows quickly and makes a lot of good eating leaves. The plants are medium large and the leaves are bright green shaded with light brown, much crumpled and frilled at the borders. Strictly non-heading. The quality is crisp; tender and deliciously flavored. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**Grand Rapids Forcing** (38 days). Particularly adapted for Winter culture in greenhouses, not form a head but has an upright growth of large leaves attractively curled and fringed. The color is a beautiful light green and quality is tasty and very delightful. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**Mammoth Black-Seeded Butter** (42 days). An excellent head Lettuce with large, compact heads. The leaves are yellowish green, broad, fairly crumpled and blistered, and the heart is beautifully blanched. The quality throughout is crisp, tender, and of a rich buttery flavor. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**PALMER'S NO. 16** (45 days). Any gardener in the St. Louis market will tell you of the superior quality of our No. 16 Lettuce. It is extremely popular for outdoor culture in the Spring and Fall and for cold frame culture. The heads are large, hardy, and vigorous, having broad, smooth thin leaves of a bright green color. Does better than any other during the cool Fall and Spring months. No. 16 is crisp and has a rich buttery flavor. We recommend this especially for professional market gardeners. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

Palmer's No. 20.



**Trianon Cos or Romaine** (55 days). The finest of varieties. Heads solid, with long, narrow leaves that blanch snowy white. Blunt at the top. When blanched the stalks are firm and may be eaten like celery. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**Improved Hanson** (45 days). One of the most reliable sure-heading sorts, of clear light green color. Excellent for Summer planting. The large heads are almost globular. The leaves are large and broad, fairly blistered and crumpled with frilled edges, and the heart is solid and well blanched. Will stand the hot weather wonderfully and is slow to go to seed. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.**

**ST. LOUIS MARKET** (The best hot weather Lettuce). (45 days). A variety which stands hot weather remarkably well. A cabbage or butter head variety with medium dark green leaves that are crumpled and straight edged. Produces large, compact heads and the quality is unusually crisp and tasty. Grown more extensively by market gardeners for Summer use than any other Lettuce. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**Palmer's Black-Seeded Forcing** (40 days). A cabbage variety of medium size. The leaves are crumpled with straight edges, medium green in color, tinged brown at the edges. Forms very compact, solid heads of excellent quality. Used extensively for forcing, but also suitable for early outdoor planting. **Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.**

**Iceberg** (50 days). Curled or crisp heading; medium large, medium green; leaves wavy with fringed edges, tinged with brown. Forms a compact head, very white inside. A handsome Lettuce, tender, crisp, and of decidedly fine flavor. Withstands hot Summers admirably. Do not confuse with "New York or Wonderful" as many growers ship "Wonderful" under the name of "Iceberg" but they are two different varieties. **Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.00.**



Palmer's No. 16.

## Mustard

One ounce will plant 100 feet of row; 1 pound will plant an acre in rows; 2 pounds broadcast.

**DIRECTIONS FOR PLANTING.** Any good garden soil will produce fine Mustard. Sow early in the Spring in rows 12 inches apart, covering the seed with one-half inch of soil. Cut when about 4 inches high. For succession sow every few weeks until Autumn.

**Southern Giant Curled** (30 days). The plants are vigorous and hardy; of upright spreading growth and produce a large quantity of green leaves. The leaves have a yellowish tint and are much crumpled and frilled at the edges. Best for early sowing and Fall crop. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 50c; 5 lbs., \$2.25.**

**FORDHOOK FANCY** (30 days). A handsome, strong growing variety with beautiful dark green leaves, curled, and fringed, having the appearance of ostrich plumes. Yields an enormous quantity of greens and the plants will stand a long time before going to seed. Flavor is mild, excellent for salads and garnishing. Best for second crop. **Pkt., 10c; ¼ lb., 20c; 1 lb., 50c; 5 lbs., \$2.25.**

**Chinese Broad Leaf** A vigorous growing, sweetly pungent variety. Large, broad, smooth leaves. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 50c; 5 lbs., \$2.25.**

**Mustard Spinach or Tendergreen** A new delicacy in greens, especially recommended for summer sowing. If picked while young, it is relished by all who try it. Cross between spinach and mustard. Imported from Japan. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

## Select Horseradish Roots

Horseradish is worthy of a place in any garden. The small sets or roots are planted in the Spring and will produce large, straight roots for use the same season. Roots may be left in the ground all Winter without damage, and dug as needed. Plant the roots as early in the Spring as possible in rows 3 feet apart, allowing 12 to 15 inches between plants in the row. Cultivate like potatoes. **25 for 40c; 100 for \$1.25; 1000 for \$9.00.**



Early Dwarf Green Short Pod Okra.



Southern Giant Curled Mustard.



Broad American Flag Leek.

**White Velvet** (55 days). A vigorous, tall growing variety producing an abundance of long, smooth, creamy white pods. They are tender and mature very early. The plants reach a height of about 3½ feet. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 50c.**

## New Mushroom Spawn

Some people have the false impression that Mushrooms can only be grown in caves, pits, and chambers especially built for the purpose. They can be successfully grown in any room, basement or shed that can be converted to darkness. Beds can be made on the floor or on shelves; some are even grown in barrels.

### WRITE FOR FREE CULTURAL LEAFLET

We have compiled in complete form a leaflet giving all information that will enable you to start growing Mushrooms right now. This will gladly be sent free to anyone. Writing us, whether you order spawn or not.

**Lambert Spore Culture** Experience has taught us that this type of spawn is the most practical and gives best results. It comes in bricks weighing 1 to 1¼ pounds each. One brick will spawn about 10 square feet of bed. We keep a fresh stock on hand at all times and you can be sure of high quality when you order our Lambert Spore Culture. **Per brick, 25c; 5 bricks, \$1.00; 100 bricks, \$17.00.**

## Dandelion

Cultivated for Spring greens. The variety we offer is deep green in color and has thick leaves of fine quality. Sow the seed in rows 18 inches apart. When the plants have a good start thin out to 5 inches apart and cultivate thoroughly. Seed sown in the Fall will produce plants for use the following Spring. Seed sown in Spring will not produce plants for use until next season. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50.**



Fordhook Fancy Mustard.

## Leek

One ounce will plant 100 feet of row; 4 pounds per acre.

**DIRECTIONS FOR PLANTING.** Sow the seed early in the Spring in rows 12 to 18 inches apart, covering the seed about one inch. When the plants are about 6 inches high, transplant or thin out so they stand 6 to 8 inches apart in the row. Set the young plants deeply so the neck will be well covered.

**BROAD AMERICAN FLAG** (70 days). A very fine, early variety that is extremely hardy and productive. It is a quick grower and produces large, strong plants with broad leaves of mild flavor. Excellent for Fall and early Winter sowing. **Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

## Okra

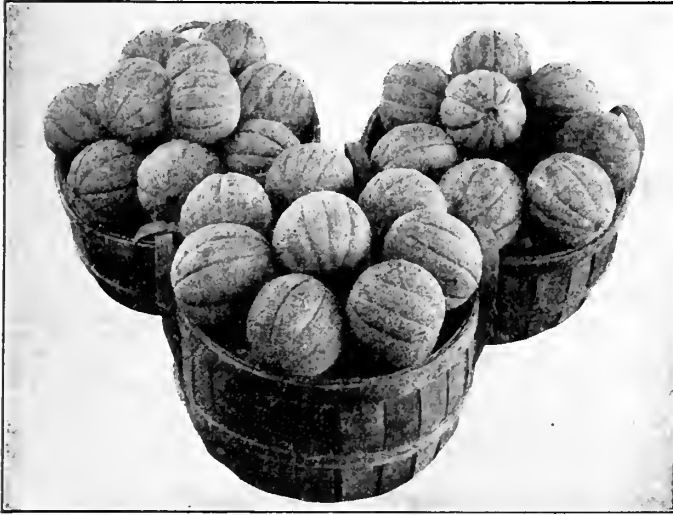
One ounce will plant 100 feet of row; 8 lbs. will plant an acre.

**DIRECTIONS FOR PLANTING.** Plant in rich ground when the weather is warm and settled, in rows 3 feet apart, thinning the plants to stand 8 to 10 inches apart.

**Early Dwarf Green Short Pod** (50 days). An extra early maturing variety of dwarf growing habit and very productive. The bushes make a compact and stocky growth and bear a tremendous crop of pods. The pods are short, deep green, very tender, and fibrous and of excellent quality. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 50c.**

**Mammoth Long Green** (Also known as Perkins' Mammoth). (60 days). A very prolific variety maturing early and producing a big crop of long, slender, deep green pods. They are slightly corrugated, tender, and do not harden as quickly as other long-podded sorts. A good variety for market. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 50c.**





Hearts of Gold Muskmelons.

**POLLOCK 10-25** (Pink Meat days). Identical with Rocky Ford except the color of the flesh, which is light salmon in color at the center, shading into a light green mid-way to the rind. A marvelous combination of appearance, flavor, earliness, size, and keeping quality. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.**

**Burrell's Gem** (75 days). An excellent small, oval-shaped Melon of the Netted Gem type, but somewhat later and slightly larger. The Melons are well ribbed and covered with a fine gray netting. The flesh is thick, firm, of salmon-orange color and has a delightful flavor. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.**

**Tip Top** (80 days). A large sized, salmon flesh variety, varying from round to slightly oblong. Somewhat late in maturing. The skin is pale green, deeply ribbed and moderately netted. Sweet and juicy. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.**

**Osage Salmon** (75 days). The Melons are rather large, oval-shaped, having a distinct, dark green skin with gray netting, slightly ribbed. Flesh very thick, deep salmon, and of a most delicious quality. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.50.**

## Best Green Fleshed Varieties

**Rocky Ford** (Also known as Netted Gem). (70 days). Our improved strain of this popular Melon is grown by the leading grower in Rocky Ford, Colorado. It is a vigorous growing, medium early variety and produces an abundance of fruit. The Melons are almost round, slightly oval, show no ribs, and are covered with a heavy, hard gray netting. The flesh is thick and of a deep green color, showing a faint lining of pink or gold at the center. It possesses a marvelous flavor and is unsurpassed for shipping quality. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.**

**Large Hackensack** (75 days). The fruits are large, round, and flattened at the ends and well ribbed. The flesh is green, thick, and exceedingly tasty. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00; 5 lbs., \$4.75.**

**Honey Dew** (120 days). A Melon with green flesh and smooth, almost white skin. Relished everywhere for its "sweet as honey" flavor. The Melons average 6 to 7 inches in diameter and weigh 5 to 6 pounds. As it requires a long and warm growing season it is not recommended for northern planting. **Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50; 5 lbs., \$6.00.**

## Fancy Muskmelon

One ounce will plant 50 hills; 2 to 3 lbs. will plant an acre.

**DIRECTIONS FOR PLANTING.** Melons require a rich, sandy loam, and about 100 days of good growing weather. Sow the seed early in May in hills 4 to 6 feet apart each way, placing 10 to 12 seeds to a hill. Cover the seed about one inch with fine soil, firmly pressed down. Mix a shovelful of well-rotted manure with the soil in each hill. When large enough thin out to the four strongest plants.

**Note:** Soon as bugs are noticed start dusting with Sodium Fluosilicate, mixed 1 lb. to 5 lbs. of Hydrated Lime.

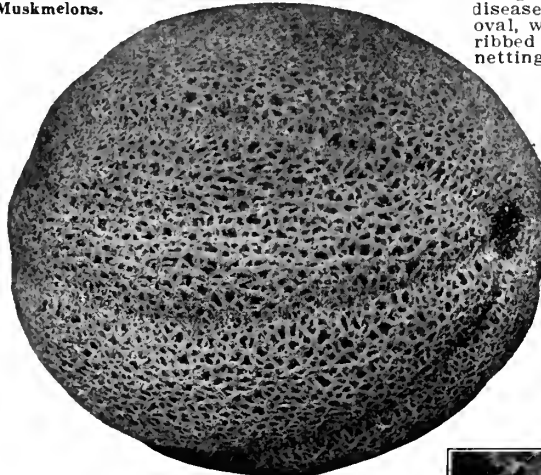
## Best Salmon Fleshed Varieties

### PALMER'S DEE-LIGHT MELON

A New Specialty

This new melon is expected to win the commendation of all who plant it this season. **Prices, pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50; 5 lbs., \$11.25.**

**HEARTS OF GOLD** (Improved Hoodoo). (70 days). This wonderful midseason variety has enjoyed a sensational rise to popularity in a comparatively short time. In productiveness, appearance, taste and all around good quality, it holds a prominent place. The vines make a vigorous growth and are highly resistant to disease. The fruits are of medium size, slightly oval, with a tendency to heart-shape, distinctly ribbed and densely covered with a fine gray netting. The flesh is of a rich orange color; very thick, has a small cavity and ripens thoroughly to the rind. The remarkable sweetness and delicious flavor of Hearts of Gold cannot be praised too highly. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25; 5 lbs., \$5.75.**



Hale's Best Muskmelon.

**Hale's Best** (70 days). This is a new variety selected from the Pollock 10-25 and Rocky Ford, originating in the Imperial Valley of California. It is a remarkable early Melon, of delicious flavor, and particularly valuable for shipping. The Melons are oval-shaped, about 8 inches long and 4½ inches in diameter, with heavy netting and fairly distinct ribbing. The flesh is exceptionally thick, deep salmon in color, and has a very small seed cavity. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25; 5 lbs., \$5.75.**



Palmer's St. Louis Market Muskmelons.

## Watermelon

One ounce will plant about 30 hills; 4 to 5 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** A light, sandy loam soil with plenty of sunshine is best for Watermelons. Plant in hills about 8 feet apart each way, using a shovelful of well-rotted manure to each hill. Place 8 to 10 seeds to a hill. Thin out to three strongest plants.

**Stone Mountain** A new round watermelon rapidly growing in popularity throughout the South and West. It has a light green skin and deep crimson flesh, free from white hearts and stringiness. It is not a good shipping melon for long distances, but can be highly recommended for home gardens and nearby markets; it should prove very successful everywhere. **Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.**

**SELECTED TOM WATSON** (85 days). The greatest shipping Melon on the market. Superior to any other in its class. The extra long attractive Melons measure 2 feet long and 10 to 12 inches in diameter, weighing 40 to 50 pounds each. The large delicious fruits are of dark green color and have a tough rind, but comparatively thin. The flesh is deep red, sweet, and of such wonderful flavor it can hardly be described with words. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**Fordhook Early** (60 days). This is the earliest Watermelon we offer. It is large in size and possesses a deliciously sweet flavor. The Melons are nearly round, have medium green skin and bright red flesh. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**Thurmond Grey** (85 days). A new variety of remarkable qualities, produced by C. A. Thurmond, expert Melon grower of Georgia. It is a large, beautiful Melon of grey-green color maturing about the same time as Tom Watson. The rind is very tough and makes it an excellent Melon for shipping. The flesh is rich crimson and of luscious quality. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**



Kleckley's Sweet Watermelon.

**KLECKLEY'S SWEET** (Also known as Monte Cristo). (80 days). A dandy Melon for home use or nearby markets. While the skin is too thin to permit shipping long distances, the delicious quality of Kleckley's Sweet has won for it thousands of friends who like good Watermelons. The Melons are very large and oblong and have a rich, dark green color. The flesh is bright scarlet and has a solid heart, and possesses one of the best flavors imaginable. Melons average 18 to 20 inches long and 10 to 12 inches in diameter. Seeds white. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**Irish Grey** (80 days). A distinct Melon that produces an enormous crop of high quality fruits. The size is uniformly large, skin an attractive grey-green, and the sparkling and juicy red flesh cannot be surpassed by any other Melon. Earlier than Tom Watson and will keep in good condition a long time after picking. Excellent shipper. Vines are vigorous and healthy. Rind almost as tough as a citron. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

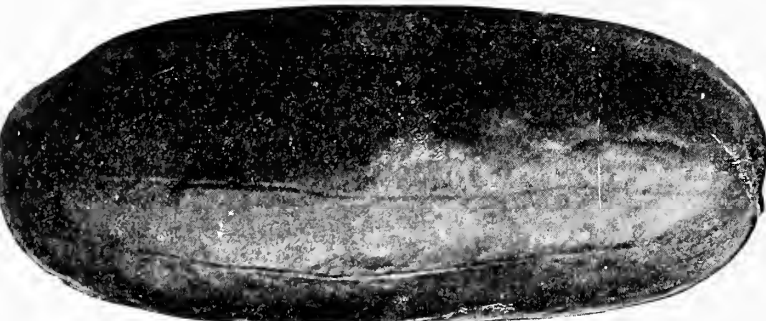


Selected Tom Watson Watermelon.

**Halbert's Honey** (80 days). A handsome dark green Melon measuring 18 to 20 inches long and 6 to 8 inches in diameter, averaging 35 pounds each. The flesh is beautiful crimson color and is sweet and very delicious. Fine for home gardens. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**NEW WONDER WATERMELON** This new variety of Melon is about 5 or 6 years old, and is gaining in popularity each year. It is a large and long Melon, somewhat resembling the Watson; the rind is a dark, solid green, being thin but very tough. The flesh is a beautiful red, having a solid heart which does not show a hollow. An exceptionally fine eating Melon, good for home use and fine for market. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

**Preserving Citron** (100 days). A fine large round Citron that is widely used for making preserves. Melons grow to a good size and the flesh is solid and practically white. Rind is dark green mottled with a lighter shade. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**



New Wonder Watermelon.

"I had splendid luck with your seeds. Everything did just fine."  
MRS. MARY DRIEMEYER, Pinckneyville, Ill.

## Onion Seed

One ounce will plant 100 feet of row; 5 to 6 lbs. per acre.

**DIRECTIONS FOR PLANTING.** Onions grow best in rich, sandy loam soil or even in black loam. For an early crop sow the seed in hotbeds or cold frames in February; transplant to the open when large enough to handle in rows 1 foot apart, allowing 3 to 4 inches between plants. Open ground sowing is made right after frosts are gone. Sow in rows 1 foot apart and thin out to 3 to 4 inches between plants.

### Best White Varieties

**WHITE BUNCH** (Thick Neck Bunching). (100 days). This strain was procured by us from one of the leading European growers, and we are fortunate in being able to offer our customers such a splendid Onion. Has a thick, firm neck and is especially recommended to market gardeners for bunching. Has thick necks and strong tops. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**SOUTHPORT WHITE GLOBE** (120 days). The most attractive of all White Onions, and the best quality. It is perfectly globe-shaped, with small neck, pure white skin, juicy, and has a delightfully mild flavor. The flesh is solid and firm. Cannot be beat for shipping and always demands the highest prices. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**White Portugal or Silverskin** (95 days). (Same as Philadelphia White Silverskin). A splendid medium size flat Onion with silver-white skin and firm, solid, fine grained flesh. The flavor is mild and sweet. Used principally for green bunching Onions and for sets, and is recognized everywhere as the best pickling Onion on the market. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.00.

**White Lisbon** Used while young for bunching. The bulbs are somewhat flattened, 3 to 4 inches in diameter, and 2 to 3 inches thick, with rather thick necks and strong tops. Not a good keeper. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**White Welsh** Does not form a bulb but is the best sort for bunching. To carry over winter for spring use, seed should be sown in furrows 4 inches deep and filled in as the plants develop. Quality more mild than other perennial sorts. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

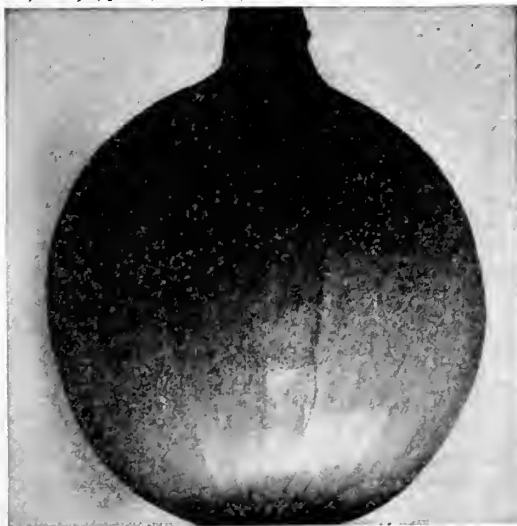
**St. Louis County Frost-Proof** This is seed of our own growing produced in St. Louis County. It is of the Silverskin type and extremely hardy. Will withstand the most severe Winter weather. Our supply is limited so only the first orders can be accepted. Pkt., 10c; oz., 40c; ¼ lb., \$1.00; lb., \$3.00.

**Crystal Wax Bermuda** Rapidly becoming the most popular of Bermuda Onions. It is absolutely pure white, and has a delicious, mild flavor. Flat and of medium size. Pkt., 10c; oz., 60c; ¼ lb., \$1.75; lb., \$6.00.

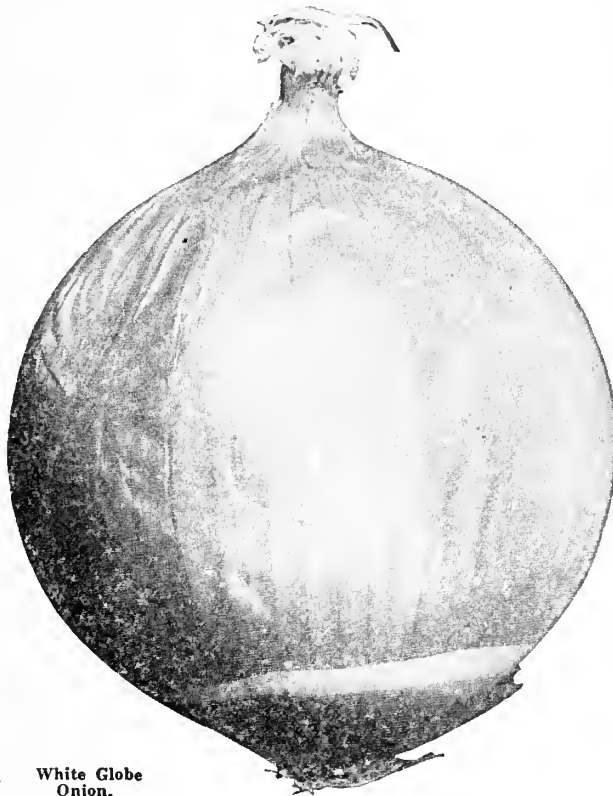
### Best Red Varieties

**Southport Red Globe** (120 days). A beautiful large globe Onion with small neck. The skin is a dark red color and the flesh is white, slightly tinted with pink. Tender and rather strongly flavored. One of the best keeping varieties and an excellent shipper. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.00.

**Red Wethersfield** One of the oldest and best known types of Onion. A fine, large, rather flat sort of a deep purplish color. Used largely in the production of Onion sets. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.00.



Southport Red Globe.



White Globe Onion.

### Best Yellow Varieties

**Southport Yellow Globe** (110 days). The most largely grown Yellow Globe Onion for market use, and the most profitable. The bulbs are true globe-shaped, having a small neck and a heavy, thick skin, which makes it excellent for storage. The skin is a bright golden yellow and the flesh pure white. Its crispness, juiciness and mild flavor make it a favorite in every section. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.00.

**Giant Yellow Prizetaker** (100 days). This magnificent yellow, globe-shaped Onion is all that its name implies. It grows to an enormous size, weighing as much as four pounds each, and often measuring 4 to 5 inches in diameter. The skin is a handsome light yellow and the flesh white with a pleasingly mild flavor, crisp. Our special strain of Prizetaker will please the most critical. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.00.

solid and juicy. cal gardeners.

**Danvers Yellow Globe** (110 days). Our strain is superior to most stock under this name. By careful breeding our growers have developed an Onion that combines earliness, large size, small neck, and enormous producing qualities. They ripen evenly and make an excellent Onion for storage and shipping. The skin is a rich brownish yellow and the flesh is creamy white, solid, tender and possesses a delicious mild flavor. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.00.

**Yellow Bermuda** (Sometimes called "White Bermuda"). Grown extensively in Texas. Produces a large, straw-colored Onion; ripens early and has a most delicious, sweet and mild flavor. Pkt., 10c; oz., 45c; ¼ lb., \$1.25; lb., \$4.00.

### Bermuda Onion Plants

**Yellow and Crystal Wax** 100 plants for 20c; 1000 plants for \$1.50; \$6.50 for case of 6000 plants.

### Palmer's Onion Sets

One quart will plant 50 feet of row; 8 bushels will plant an acre.

**DIRECTIONS FOR PLANTING.** Onion Sets should be planted in rows 12 inches apart, sets spaced 2 inches apart in the row.

**White Onion Sets** Grown from our strain of White Portugal or Silverskin. Fully described in Onion Seed section. 1 lb., 20c; 4 lbs., 75c.

**Red Onion Sets** Hardy and good keepers. 1 lb., 15c; 4 lbs., 50c.

**Yellow Onion Sets** Produce medium size, globe Onions of excellent quality. 1 lb., 15c; 4 lbs., 50c.

## Garden Peas

One pound will plant 50 feet of row; 2 bushels will plant an acre.

**DIRECTIONS FOR PLANTING.** Peas must have a good rich soil worked deep and thoroughly. Plant early varieties, as soon as ground can be worked, in rows 4 feet apart, covering the Peas 2 inches. For succession sow every two weeks up to August 1st. The wrinkled varieties are more easily damaged by cold, wet weather than the round, hard varieties and therefore should not be planted very early.

### Best Early and Extra Early Peas

**Hundredfold** (50 days). This is decidedly the best Pea of the Laxtonian type ever grown. It is a large-podded, dwarf variety with a flavor so delicious it is just about perfection. Enormous cropper. Dark green pods, fairly broad and pointed, filled with eight large peas. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.25.**

**Sutton's Excelsior** (55 days). The finest dwarf wrinkled, extra early variety. An improvement of Nott's Excelsior with larger pods and greater productiveness. Vines about 15 to 18 inches high. Pods beautiful light green, averaging 3½ inches long, round, straight, and well filled with 6 to 8 large peas of the finest flavor. In sweetness and quality they have no equal. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.**

**LAXTONIAN** (55 days). An exceptionally fine, giant-podded Pea of dwarf growth, usually about 1½ feet high. Vigorous and very productive. The pods are dark green and measure about 4 inches long, straight and pointed, being filled with 6 to 8 large, luscious peas of fine quality. Matures slightly earlier than Gradus. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.25.**

**Nott's Excelsior** (60 days). A strong, vigorous grower and bears for a long time. Height about 1 foot. Foliage stout, heavy, medium green. Pods light green, 3 inches long, and contain six large, light green peas of unusually sweet flavor. Very productive. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.**

**Alaska, Extra Early** (45 days). Also known as Earliest of All. The earliest of all smooth, blue Peas. Exceptionally popular with canners and market gardeners. Grows about 2½ feet tall and produces a big crop of well filled medium size pods. The pods are round, straight and square-ended, and contain six light green peas of fine quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$1.75.**

**Ameer or Large-Podded Alaska** (45 days). This splendid variety is quickly becoming a favorite. It is a large-podded Pea of the Alaska type, very vigorous and of hardy constitution. Grows about 3 feet high, and produces an enormous yield of large, broad, dark green pods. About one-third larger than Alaska and the pods are well filled with about 7 large, round, blue peas of the best quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$1.75.**

**FIRST AND BEST** (45 days). Extra early Pea of light color. Vines vigorous and hardy, and produce an abundance of

straight pods, 2 to 3 inches long, round and blunt; height 2½ feet. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.**

**Gradus or Prosperity** (55 days). A fine large-podded, early, wrinkled variety and a favorite with market gardeners. The vines are moderately heavy and produce medium green pods that are straight, round, long, and filled with 6 to 8 large, luscious peas. The vines average 2½ feet high and the pods about 4 inches long. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.**

**Thomas Laxton** (50 days). An extra early large-podded Pea rivaling the famous Gradus, and in many respects even better. The vines grow 2½ feet high and moderately heavy. The pods are medium green, about 3½ inches long and contain 7 medium peas of a delicious flavor. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.**

**American Wonder** (50 days). A wonderful variety to use for the private garden. It is a dwarf variety growing about 8 to 10 inches tall and comes in a few days after Alaska. It produces an abundance of small pods holding 6 to 8 peas of good quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.**

### Best Second Early and Late Peas

**Telephone** (70 days). This late Pea combines vigorous vines, large pods, productiveness and fine quality. The vines are about 4 feet high and produce a big yield of large pods 4½ inches long, filled with 8 large, light green peas; exceptionally tender, sweet and delicious. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.00.**

**PRINCE EDWARD** (65 days). One of the best of the large, dark-podded Telephone types, and one of the most productive. Height 4 feet. Vine and foliage stout and heavy, medium green; pods dark green, 4½ in. long, broad and pointed, containing 8 to 9 very large, medium green peas. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 10 lbs., \$2.25.**

### Edible Pod Peas

**Tall Melting Sugar** (70 days). Producing large, broad pods that are very brittle and entirely stringless. Height 3½ feet. The pods are light green; 3½ inches long, broad and pointed and contain 7 light green peas. Seed is smooth and white, matures with Telephone. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 10 lbs., \$2.50.**

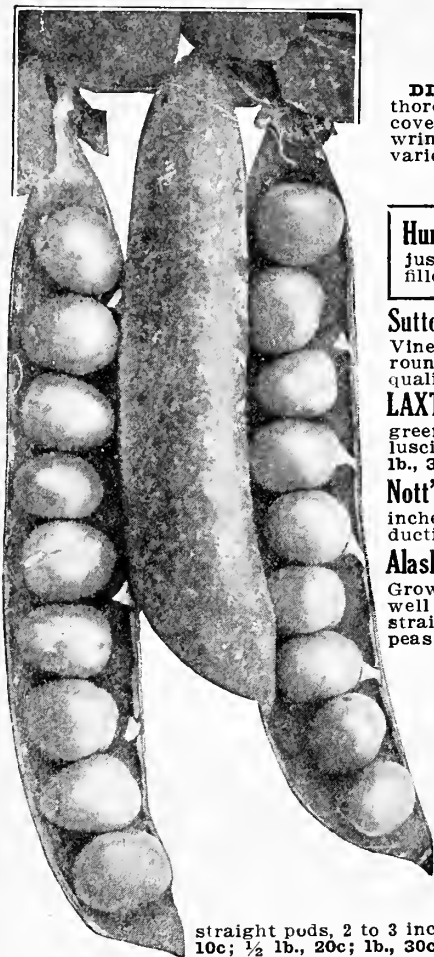
**Dwarf Grey Sugar** (55 days). An early edible-pod variety with purple blossoms and producing Peas of a wonderfully delicious taste. Grows 2 feet high. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 10 lbs., \$2.50.**

### Field Peas

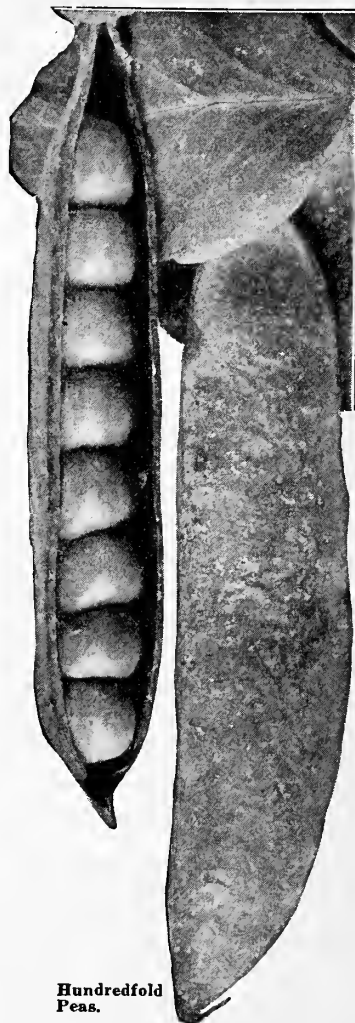
**Black-Eyed Field Peas** This is one of the Cow Pea family but is used considerably for table use as shell peas. The peas are white with a distinct black eye. **Lb., 20c; 10 lbs., \$1.50; 25 lbs., \$3.00.**

**Canada Field Peas** Used extensively for building up soil. Also sown with oats for green feed. Sown at the rate of 2 bushels per acre. **Lb., 20c; 10 lbs., \$1.50; 25 lbs., \$3.00.**

Hundredfold Peas.



Prince Edward Peas.





## Pepper Seed

1 ounce will produce 1500 plants; 5000 plants will plant an acre

**DIRECTIONS FOR PLANTING.** A warm, mellow soil is most suitable for Peppers. Start the seed in a hotbed or indoor box during March or April. When the weather becomes warm and the earth dry, transplant to the open in rows 2½ feet apart, allowing 1½ feet between each plant.

**PALMER'S SPECIAL** (120 days). This remarkable strain of Early Giant Peppers was developed by one of the leading commercial growers in St. Louis County, whose Peppers have always commanded the highest price on the local market. Combines the qualities of large size, mild flavor, productiveness and extreme earliness. It is a four-nosed Pepper on the order of Sweet Mountain, but is longer, larger and of better quality. A plant with 12 to 15 large, handsome Peppers is not uncommon. We highly recommend this superior strain for long distance shipping and know it will be a favorite with anyone who tries it. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

**CALIFORNIA WONDER** (New). Here's a new Pepper of real merit. It's nearly as large as, and earlier than Chinese Giant, but is blocky or square-ended, just the shape you've been looking for. It will sit upright and is ideal to stuff and bake, or to serve whole with salad. Its walls are exceptionally thick, heavier and firmer than any other sort, and the flesh is deliciously sweet and spicy, with no bite to it. Some specimens in our trials measured 4½ inches across and 5 inches long, and weighed 1½ pounds. The bright, attractive green changes to a brilliant light crimson. Try it; it's a wonder. **Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00; lb., \$9.00.**

**PALMER'S EARLY GIANT** The earliest and most prolific of all large Peppers. Is of dwarf, compact growth, bearing as many as 12 pendent fruits on a single plant. Fruit scarlet, measuring 5 inches long by 3½ inches in diameter; 3-lobed, mild and sweet. A profitable Pepper for the market. **Pkt., 10c; oz., 75c; ¼ lb., \$2.25; 1 lb., \$7.50.**

**Worldbeater** (130 days). The name of this Pepper gives you an idea of how good it really is. It is a new introduction, combining the long form and earliness of the Ruby King and the large size of the Chinese Giant. It is exceedingly productive, a good shipper, and one of the most attractive Peppers on the market. The peppers are 4-lobed, 5 inches long and 3½ inches in diameter. Its color is first a dark green, changing to a very brilliant scarlet when ripe. It is not unusual to pick 15 to 25 fine Peppers from a single plant. Because of its thick flesh it makes an excellent shipper and we want all of our customers to try at least a small quantity of it this season. Our stock is limited. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.50.**

Palmer's Special.

Long  
Narrow  
Cayenne.

**Bell or Bull Nose** (120 days). The plants are very vigorous and sturdy, 2 feet high, and bear an abundance of deep green fruits that ripen to a beautiful scarlet-red. The fruits are about 3 inches long, 2 inches in diameter and blunt-ended. Very productive. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

**Chinese Giant** (140 days). One of the best large, mild, red varieties. The plant has a short, stocky growth, and the fruits are thick, blocky, 4 to 5 inches in diameter, and of equal length. The color is a brilliant shiny scarlet. Makes an excellent mango for stuffing. **Pkt., 10c; oz., 50c; ¼ lb., \$1.75; lb., \$5.50.**

**Crimson Giant** (120 days). This very desirable sort makes large fruits, ripens early, and bears a big crop of Peppers that are mild and sweet in flavor, and are fine for salads and mangoes. The fruits average 5 inches long and 3½ inches in diameter. **Pkt., 10c; oz., 60c; ¼ lb., \$1.75; lb., \$5.50.**

**Ruby King** (120 days). One of the most profitable and satisfactory sorts for the home and market garden. The plants are early, very productive and of dwarf, compact growth. Fruits are 4 to 6 inches long and 3 to 4 inches thick, tapering, and of a bright ruby-red color. The flesh is thick, sweet and mild. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

**Sweet Mountain** (120 days). Similar to Bull Nose but longer. The fruits often grow 6 inches long and 4 inches in diameter, and have a bright red color and a mild, sweet flavor. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

**LONG NARROW CAYENNE** (125 days). A well known medium early variety with a slender, twisted pod about 4 inches long. The color, when young, is a deep green, turning to a bright scarlet when ripe. Flesh extremely hot. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

**Red Chili** (145 days). A late maturing variety with bright red pods about two inches long and one-half inch in diameter, tapering to a point at the base, and exceedingly hot. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

**Pimiento** (130 days). A small heart-shaped variety with thick flesh especially suitable for salad fillings and flavoring. The fruits are medium size, 3½ inches long and 2½ inches in diameter, and a brilliant red when ripe. Plants are very prolific. Quality fine. **Pkt., 10c; oz., 50c; ¼ lb., \$1.40; lb., \$4.50.**

## Select Pepper Plants

**PALMER'S SPECIAL**

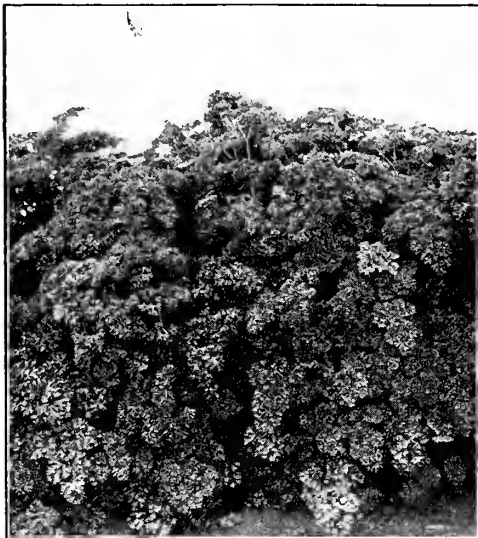
**CHINESE GIANT**

**BELL or BULL NOSE**

**LONG NARROW CAYENNE**

1 dozen for 20c; 4 dozen for 75c; 8 dozen for \$1.20.

Worldbeater.



Double Curled Parsley.

## Parsley

One ounce will plant 150 feet of row; 2 to 3 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** Parsley requires a rich, deep, mellow soil. Sow early in the Spring in rows 1 foot apart, covering the seed one-half inch. Thin the plants to stand 3 to 4 inches apart in the row. Be sure to soak the seed for about 12 hours in warm water before planting. The leaves are easily kept for Winter use by drying, powdering and storing in glass jars.

**DOUBLE CURLED** (65 days). A dwarf, compact variety with handsome, mosslike, dark green leaves that are densely curled. A good sort for market gardeners to grow. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**

**Champion Moss Curled** (65 days). A vigorous growing sort with deep green, attractive foliage that is densely curled. Splendid for either garnishing or flavoring. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**

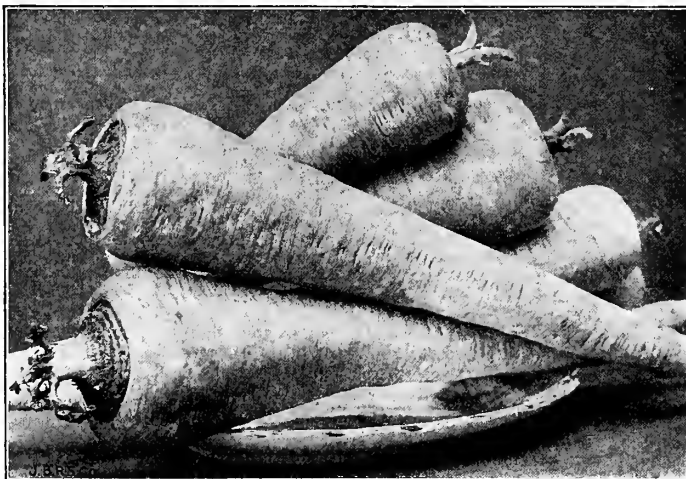
**Plain Leaved** (Also known as Italian). (70 days). Grown very extensively for soup bunches. Of dwarf growth and produces dark green flat leaves, deeply cut but not curled, hence, not as attractive as the other kinds. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**

**Hamburg or Turnip-Rooted** (100 days). The thick, fleshy, parsnip-like roots of this variety are used in flavoring soups, stews, etc. Roots may be dug and Winter stored like parsnips. They are white and have a flavor similar to parsnips. **Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00.**

## Parsnip

One ounce will plant 200 feet of row; 5 to 6 pounds per acre.

**DIRECTIONS FOR PLANTING.** Parsnips require a deeply worked soil to mature to perfection. A rich, sandy loam, thoroughly prepared is best, although any deep, moderately rich soil will produce good roots. Sow the seed about April 1st in rows 1 foot apart and cover one-half inch. Thin out to stand 3 or 4 inches apart in the row. Roots may be dug when frost sets in and stored in a good cellar all Winter.



Hollow Crown Parsnips.

## HOLLOW CROWN or LARGE

**SUGAR** (85 days). The best variety for general use. The roots are long and tapering, averaging 12 inches in length, and have broad shoulders. They have a smooth white skin and the flesh is tender, sugary, and of a marvelous flavor. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.**

## Pumpkin

One ounce will plant 25 hills; 3 to 4 lbs. will plant an acre.

**DIRECTIONS FOR PLANTING.** Plant in a good garden soil when the ground has become warm and dry, usually early in May. Sow the seed in hills 8 to 10 feet apart each way, dropping 8 seeds to a hill. After plants are well advanced thin out to four to a hill. If planted among corn put about three seeds in every third or fourth hill. Never plant Pumpkins close to squash or other vine crops, as they mix.

### KENTUCKY FIELD or LARGE

**CHEESE** (90 days). A large, round, flat Pumpkin averaging 1½ to 2 feet in diameter. The skin is of a creamy buff color and much ribbed. It has thick orange-yellow flesh of exceptional quality and is a splendid sort for canning and family use. Also used to a great extent for stock feeding. **Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.**

**King of the Mammoths** (Also known as Jumbo and Potiron). (90 days). This is the largest of all Pumpkins, the fruits growing to an enormous size, often weighing as much as 150 pounds, and measuring 2 feet in diameter. The Pumpkins are round and flat, slightly ribbed and with a light orange colored skin. The flesh is bright yellow, very thick, and of good flavor. **Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 90c.**

**Japanese Pie** (90 days). Shaped somewhat like the Cushaw varieties and grows to a large size. The skin is a deep green with dark stripes and the flesh is deep yellow. The Pumpkins mature early and are of splendid quality. For good pies, we recommend this sort highly. **Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 90c.**

**Connecticut Field** (70 days). Generally used for planting in the corn for making pies. The Pumpkins are rather oblong, slightly flattened and often measuring 15 inches in diameter. The reddish orange skin is distinctly ribbed. The flesh is a rich orange-yellow and highly flavored. **Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 75c.**

**Tennessee Sweet Potato** (90 days). Of medium size and nearly bell-shaped. Neck slightly crooked. The skin is creamy white, sometimes striped with green, and the flesh is pure white and of excellent quality. Wonderful for pies. **Pkt., 5c; oz., 16c; ¼ lb., 35c; lb., 90c.**

**SMALL SUGAR** (65 days). A small, round, flattened variety, slightly ribbed and used mostly in the home garden. The skin and flesh are of a deep orange-yellow, very thick and of delicious flavor. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**



Kentucky Field or Large Cheese.

# Certified Seed Potatoes

(50 pounds per bushel)

## Strictly Northern Grown

One-half peck will plant 100 feet of row; 8 to 10 bushels will plant an acre.

**DIRECTIONS FOR PLANTING.** Cut the Potatoes in pieces, each piece having two or three eyes. Plant them in rows 3 feet apart, dropping the pieces 15 inches apart for early Potatoes and 18 inches apart for late Potatoes. Some growers plant them in check rows 3 feet apart each way. Cultivate constantly and thoroughly. Mature in 80 to 120 days from planting.

**DIP THE PIECES IN DU PONT SEMESAN BEL. THIS CONTROLS SCAB, BLIGHT AND OTHER POTATO DISEASES**



New York Rural.

## Fancy Certified Stock

Do not confuse our Seed Potatoes with the ordinary commercial grades offered for seed purposes. We secure our stocks from authentic sources. They are inspected in the field by government agents, and are strictly first class in every way. **Guaranteed Certified.**

## Best Late Varieties

**NEW YORK RURAL** A very large, smooth Potato of white skin and flesh. The shape is oblong and flat. This Potato is a good producer and its quality is fine. In some sections it is known as "Dusty Rural." 10 lbs., 65c; 30 lbs., \$1.40; 60 lbs., \$2.50.

**Irish Cobbler** Described under Early Varieties. 10 lbs., 75c; 30 lbs., \$1.40; 60 lbs., \$2.75.



Irish Cobbler Potato.

**Bliss Red Triumph** This is a medium size sort, round and uniform in shape. The skin is a beautiful light red and the flesh is pure white. Eyes slightly depressed. An excellent producer and particularly resistant to drought. 10 lbs., 75c; 30 lbs., \$1.40; 60 lbs., \$2.75.

**IRISH COBBLER** One of the most popular of early varieties. It has a clean, smooth, white skin with well developed eyes and the flesh is pure white. The Potatoes are plump and round, ripen uniformly and keep well. The Irish Cobbler may also be used as a late Potato. 10 lbs., 75c; 30 lbs., \$1.40; 60 lbs., \$2.75.

## Fancy Sweet Potatoes

(50 pounds per bushel)

**DIRECTIONS FOR PLANTING.** Plants are produced from small tubers saved from the previous year's crop. Plant the tubers in hotbeds during March. In May transplant the plants to the open in rows 2½ feet apart, setting them 15 inches apart in the row.

**DIP THE TUBERS IN DU PONT SEMESAN BEL BEFORE PLANTING. THIS CONTROLS SCAB, BLIGHT AND OTHER POTATO DISEASES.**

## Best Early Varieties

**NANCY HALL** A popular Sweet Potato for either home gardens or market. The skin is a pale yellow and the flesh yellowish pink. Large size and big cropper. 5 lbs., 30c; peck, 65c; 1 bu., \$2.00; 5 bus., \$9.00.

**Red Bermuda** An early sort with medium red skin and light yellow flesh. Produces an abundant yield of large size Sweet Potatoes. 5 lbs., 30c; peck, 65c; 1 bu., \$2.00; 5 bus., \$9.00.



Nancy Hall Sweet Potato.



Early Ohio.

## Best Late Varieties

**Red Nansemond** A leading kind for second early and late crops. The tubers are of medium size with red skin and yellow flesh. 5 lbs., 30c; peck, 65c; 1 bu., \$2.00; 5 bus., \$9.00.

**Yellow Nansemond** Very similar to the Red Nansemond except the skin is yellow instead of red. 5 lbs., 30c; peck, 65c; 1 bu., \$2.00; 5 bus., \$9.00.

## Sweet Potato Plants

50 for 40c; 100 for 75c; 1000 for \$6.00.

Treat Your Potato Seed With

**SEMESAN BEL**

America's Premier Potato Disinfectant

Semesan Bel is the successful result of a deliberate determination by Du Pont agricultural chemists to produce a thoroughly effective, practical and economical disinfectant for seed potatoes. Of as great importance as its splendid disease-control properties, is its remarkable effect upon improving both the quality and quantity of crop yields. Write for descriptive booklet. 4 ozs., 50c; 1b., \$1.75; 5 lbs., \$3.00; 25 lbs., \$37.50; 100 lbs., \$140.00.

## Fancy Imported Radish

One ounce will sow 100 feet of row; 5 pounds will plant an acre broadcast; 3 pounds will plant an acre in rows.

**DIRECTIONS FOR PLANTING.** Radishes must have quick growth to be good, therefore, a rich, well prepared sandy loam is the best soil. Sow the seed in rows as soon as the ground is warm and dry, and thin out so the plants stand about 2 inches apart. For a constant supply, sow at intervals of 10 days. Many gardeners sow the seed broadcast. Winter varieties should be sown in August and thinned to about 5 or 6 inches apart.

### Best Early Round Varieties

**BRILLIANT SPARKLER WHITE TIP** Special Reselected Sparkler. We offer this selection of Sparkler White Tip as the best obtainable anywhere. Our stock is grown from carefully hand-picked, transplanted roots. Very early, small tops, bulbs half red and half white and of beautiful waxy appearance. Will satisfy the most critical market gardeners. Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c; 5 lbs., \$2.75; 25 lbs., \$12.50.

**PALMER'S SCARLET GLOBE** (New). (20 days). We offer a special stock of this superb variety. It is one of the very earliest of the forcing Radishes and does equally well when planted outside. The roots are of nice size, absolutely globe-shaped, and have a very small top. The color is a bright scarlet and the quality always crisp and tender. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50; 25 lbs., \$16.25.

**Early Scarlet Turnip** (20 days). A very early small, round, turnip-shaped Radish of rich scarlet-red color. Small tops, and a rapid grower. The flesh is white and very tender and mild. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 60c; 5 lbs., \$2.75.

**Saxa** The earliest and best scarlet turnip Radishes for greenhouse forcing, but also very desirable for field culture. One of the slowest varieties to shoot to seed. Round, bright scarlet, and with the smallest top possible. We have an excellent stock of this Radish and enjoy a good trade on it from greenhouse growers and regular market gardeners. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50; 25 lbs., \$16.25.

**PHILADELPHIA WHITE BOX** (25 days). The best of all white turnip-rooted Radishes. The roots are round and slightly flattened, and of an intermediate size. The color is a beautiful white. It has a medium top, matures early and is always crisp and tender. May be grown successfully under sash or outdoors. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.

**Crimson Giant** (30 days). A round Radish, nearly globe-shaped, and very large and early. Remains in good condition a long time. The skin is a crimson-red and the flesh clear white and of excellent quality. One of the best for outdoor culture. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.

**French Breakfast** (20 days). A quick growing variety, oblong in shape, and of a bright rose-scarlet color with a small white tip. An excellent sort for the home garden and will also do well for forcing. Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c; 5 lbs., \$2.75; 25 lbs., \$12.50.

### Best Early Long Varieties

**White Icicle** (25 days). One of the earliest long white varieties for Spring use. The Radish has a handsome waxy white color and tapers gradually from the shoulders. The roots are usually about 6 inches long and white throughout, have small tops, are of excellent quality, and suitable for either forcing or outdoor culture. Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c; 5 lbs., \$2.75; 25 lbs., \$12.50.

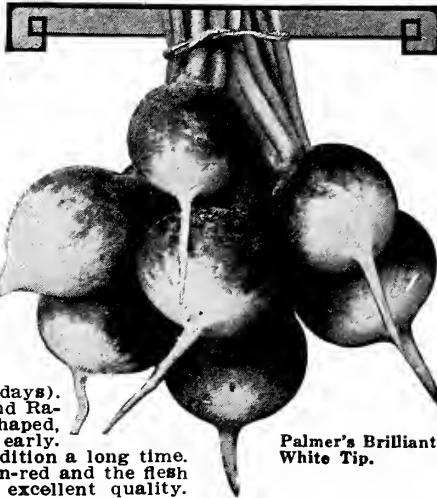
**Long Scarlet Short Top** (30 days). The roots of this variety are about 6 inches long and unusually smooth and uniform. They are slender in shape and have a bright carmine-red color. The tops are short and small. Always crisp, tender and fine flavored. Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c; 5 lbs., \$2.75; 25 lbs., \$12.50.

"Referring to the results of our experience with your seeds, beg to state that in every case they were entirely satisfactory."

L. P. PRESSLER, Rivermines, Mo.



Vick's Scarlet Globe Radishes.



Palmer's Brilliant White Tip.

### Best Summer Varieties

**ST. LOUIS WHITE SUMMER** (40 days). Market gardeners in the St. Louis district plant enormous quantities of this Radish. It is of oblong shape, tapers to a point, and is very attractive. The flesh is pure white, almost transparent, exceptionally tender and of a delightful pungent taste. Has a shorter top and grows more above the ground than Strasburg. Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c; 5 lbs., \$2.75; 25 lbs., \$12.50.

**White Strasburg** (40 days). Market gardeners' Special. Handsome roots 5 inches long, 2 inches in diameter, tapering to a point. Both the skin and flesh are pure white and unusually brittle and firm, remaining in good condition longer than most varieties. Cannot be surpassed for Summer use as it will stand severe heat and grows rapidly. We highly recommend our special strain of Strasburg which is imported from the best European growers. Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c; 5 lbs., \$2.75; 25 lbs., \$12.50.

**Chartier** (Also known as Long Rose and Shepherd). (35 days). It has beautiful long roots of a fine crimson color at the top and fading to pure white

at the tip. The roots average 7 to 8 inches in length, rather thick and somewhat later in maturing than other long scarlet varieties. Flesh white, crisp, with a delicious snappy flavor. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.

**White Munich** (Also known as Bear Radish). Makes an attractive white, oval-shaped Radish of large size. The flesh is crisp, juicy and mild. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.

### Best Winter Varieties

**China Rose Winter** (Also known as Scarlet China). (60 days). One of the very best Winter sorts, with cylindrical roots 4 to 5 inches long and 2 inches thick. The roots are largest near the bottom and blunt at both ends. The skin is bright rose color and the flesh pure white, crisp, tender and of a pungent flavor. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.

**Long Black Spanish** (70 days). One of the latest and hardest sorts for Winter use. The roots grow 8 to 9 inches long and 2 to 3 inches in diameter. The skin is black and the flesh pure white, solid, and has a good radish flavor. May be stored all Winter in perfect condition. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.

**Round Black Spanish** (70 days). Similar to the Long Black Spanish except in shape. The roots are round, slightly top-shaped, 3 to 4 inches in diameter, 3 inches long, and of a more pungent flavor than the Long Black Spanish. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.



St. Louis White Summer Radish.



Mammoth Sandwich Island  
Salsify or Oyster Plant.

## Salsify or Oyster Plant

One ounce will plant 50 feet of row; 5 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** Succeeds best in a fertile, mellow soil. Sow the seed early in the Spring in rows 12 inches apart, covering the seed one inch. Thin out to stand 3 inches apart. Salsify receives the same cultivation as carrots and parsnips. It is a hardy plant and can remain in the ground all Winter for early Spring use. However, the roots are usually taken up in October and stored for Winter use.

**Mammoth Sandwich Island** (100 days). The roots are large, thick and tapering, almost white, and delicately flavored. Oyster Plant is a most palatable vegetable and when properly cooked is very nutritious, resembling oysters in taste. Try them in your garden this Spring. **Pkt., 10c; oz., 20c; ¼ lb., 75c; lb., \$2.00; 5 lbs., \$9.50.**

## Swiss Chard (Spinach Beet)

One ounce will sow 100 feet of row.

**DIRECTIONS FOR PLANTING.** Sow as early in the Spring as the ground can be worked, in rows one foot apart, covering the seed with one inch of earth. When the plants are advanced, thin out so they stand 6 inches apart in the row. Used as a substitute for spinach during the hot Summer weather, the leaves being cooked in the same manner. The plants will yield continuously from July to Winter, starting new growth after each cutting.



Dark Green White Ribbed Swiss Chard. 1b., 60c; 5 lbs., \$2.75.

**DARK GREEN WHITE RIBBED** The variety we offer is hardy and productive, with broad green leaves that are heavily crumpled. It has large, white midribs of excellent quality, which are prepared and served like asparagus. Grows about 2½ feet high. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**

## Rutabaga (Swedish Turnip)

One ounce will plant 200 feet of row; 4 lbs. will plant an acre broadcast; 2 lbs. will plant an acre in rows.

**DIRECTIONS FOR PLANTING.** Sow the seed during July in rows 2 to 2½ feet apart and cover firmly with one-half inch of soil. When the plants are sufficiently advanced, thin out to stand 4 to 5 inches apart in the row. Cultivate regularly. In the Fall, before severe freezing sets in, pull the roots and cut off the tops. They may then be stored in a cool cellar for Winter keeping. By covering them with sand their freshness may be retained.

**Improved American Purple Top** (95 days). A perfect Rutabaga of symmetrical shape and firm flesh. We consider this the finest of all yellow, purple-top varieties because it is the hardiest, heaviest, best shaped and most productive. The roots are better keepers than most sorts. They are of bright yellow color with a distinct purple top and have a very small tap root. The flesh is of a beautiful yellow color, delicious quality, and full of nourishment. Excellent for either table use or stock feeding. **Pkt., 5c; oz., 10c; ¼ lb., 20c;**



Improved American Purple Top Rutabaga.

## Rhubarb Seed

One ounce will produce about 500 plants.

**DIRECTIONS FOR PLANTING.** Rhubarb thrives best in a deeply cultivated and thoroughly enriched soil. Sow the seed during April in rows one foot apart, using one ounce to 150 feet of row and covering lightly with one inch of soil. Later thin out to stand 4 inches apart in the row, and keep the plants well cultivated. The next Fall or following Spring they may be transplanted to a permanent bed, setting them about 2½ to 3 feet apart each way. Do not cut stalks until the plant has had a full season's growth. Propagation may be done in either Spring or Fall by dividing the roots and setting them 2 to 3 feet apart each way. Rich soil is necessary for success.

**Myatt's Victoria** The most reliable and best liked variety in use today. It is used almost exclusively by both market gardeners and home gardeners. Produces very large stalks that cook wonderfully. **Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50.**

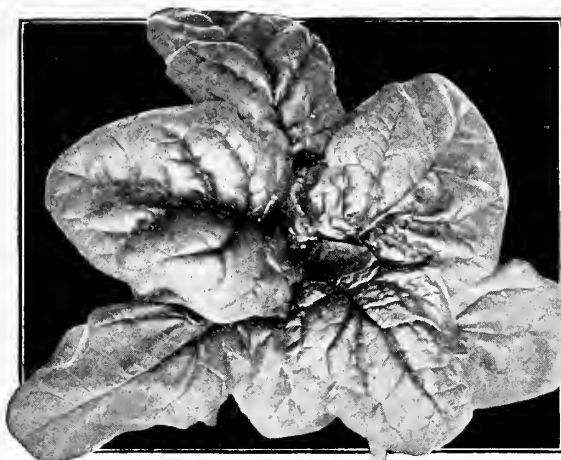
## Select Rhubarb Roots

We can supply choice 2-year-old roots of Myatt's Victoria. If planted early in the Spring they will make a strong growth and yield stalks for the table the same season. **20c each; \$1.75 per doz.; \$12.00 per 100.**

## Sorrel

Used for soups and salads and much liked for its acid flavor. Also used as a boiled vegetable when cooked like spinach, and is very tasty and nutritious. Some cook it with spinach in the proportion of one part Sorrel to three parts spinach. Sow the seed in rows 1 foot apart, thinning out to a few inches between each plant. The hot sun tends to increase acidity, so a place with northern exposure is best for Sorrel. It is a perennial plant and will come up each year, but the roots should be taken up and divided every four or five years for best results.

**Broad Leaf French** (60 days). A vigorous growing variety with broad, thick leaves that are very delicious and tender. **Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$1.75.**



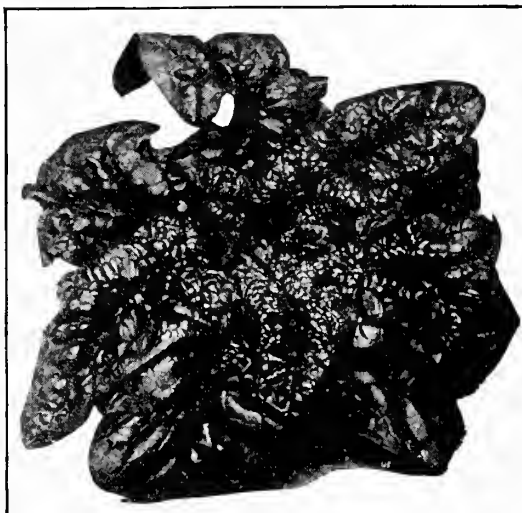
Flanders Broad Leaf Spinach.

## New Zealand Spinach

Also Known as "Everlasting Spinach."

(55 days). This is a different plant and entirely distinct from the regular Spinach, but the color, shape and taste of the leaf is remarkably similar. The plant is of tall branching growth with numerous side shoots. Leaves medium green and rather small and pointed. Will resist heat and adverse conditions and supply plenty of green leaves through the Summer and Fall. New Zealand Spinach is an excellent Summer vegetable and should be grown more extensively. The seed is planted in rows 3 feet apart, dropping the seeds every 4 or 5 inches. May be planted in hills 2 feet apart each way, 3 or 4 seeds to a hill. **Pkt.**, 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.50.

**Round Thick Leaved** Excellent for wintering over. Produces large, thick, dark green leaves, smooth but slightly wrinkled. **Pkt.**, 5c; oz., 10c; ¼ lb., 20c; 1 lb., 35c; 10 lbs., \$2.25.



Reselected Bloomsdale.

## Imported Spinach

One ounce will plant 50 feet of row; 25 lbs. will plant an acre broadcast; 15 lbs. will plant an acre in rows.

**DIRECTIONS FOR PLANTING.** Spinach grows well in either Spring or Fall and especially during cool, moist weather. It thrives in a well cultivated, rich soil. Sow the seed very early in the Spring and at intervals until June 1st for succession. For Fall crop sow from August 15th to October 5th. If planted in rows, make the rows 1 foot apart.

**Princess Juliana** (45 days). A good variety for sowing in late Spring. In form it is a dense, compact rosette and the leaves are large, rounded and thick in texture. They are exceptionally blistered and crumpled and of an intense dark green color. It is noted for its slowness to go to seed and its ability to hold up well in shipping. **Pkt.**, 5c; oz., 10c; ¼ lb., 20c; 1 lb., 35c; 10 lbs., \$2.50.

**RESELECTED BLOOMSDALE SAVOY** (40 days). This wonderful Spinach is used more than any other variety, and is especially a favorite among market growers because of its fine appearance, hardness and all around good quality. It is a very early sort and the best for Fall planting. However, if planted early in the Spring it produces excellent Spinach. The plant is of upright growth with thick, crumpled and blistered leaves of a glossy green color. **Pkt.**, 5c; oz., 10c; ¼ lb., 20c; 1 lb., 35c; 10 lbs., \$2.00.

**Flanders Broad Leaf** (35 days). The best plain-leaved Spinach on the market. An early, vigorous growing sort with bright green, broad, thick leaves. The leaves are usually broad, arrow-shaped, but occasionally rounded. It is famous for its quick growth and slowness to bolt to seed. Good for either Spring or Fall crops. **Pkt.**, 5c; oz., 10c; ¼ lb., 20c; 1 lb., 35c; 10 lbs., \$2.00.

### New Long Standing Savoy

A new strain of exceptional merit. Very similar to Re-selected Bloomsdale but will stand from 10 to 14 days longer during hot weather. This variety should be planted in preference to Bloomsdale during late Spring where danger of running into hot weather is apparent. Leaves intensely crumpled and blistered and of uniform deep green color. **Pkt.**, 5c; oz., 10c; ¼ lb., 20c; 1 lb., 35c; 10 lbs., \$2.25.

**King of Denmark** Forms compact bushes of thick, dark green, crumpled leaves. Leaves are extra large, broad and rounded. Slow seeder. **Pkt.**, 5c; oz., 10c; ¼ lb., 20c; 1 lb., 35c; 10 lbs., \$2.00.

## Squash

One ounce will plant 25 hills; 3 to 4 pounds will plant an acre.

**DIRECTIONS FOR PLANTING.** Squash succeeds best in a good, rich soil with a shovelful of well-rotted manure placed in each hill. Make the hills 4 feet apart each way, thinning out to about 3 good plants per hill. Winter varieties are planted 6 to 8 feet apart, using 1 ounce to 15 hills; 2 pounds per acre.

### Best Summer Varieties

**EARLY WHITE BUSH SCALLOPED** (Also known as Patty Pan). (50 days). The leading early Summer Squash. It is of medium size, flattened and scalloped. It is creamy white in color and comparatively smooth on the surface; flesh greenish white. Of true bush form; very prolific and the fruits measure 6 to 8 inches in diameter. **Pkt.**, 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.

**Yellow Bush Scalloped** (50 days). Quite similar to the White Bush except in color, which is a deep orange-yellow. Often referred to as "Yellow Patty Pan." **Pkt.**, 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.

**Golden Summer Crookneck** (55 days). An early productive Summer variety, growing about one foot long, moderately warted, and of bright yellow color. The flesh is salmon-orange and of a delicious flavor. A bush variety. **Pkt.**, 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.

**Italian Cocozelle Bush** (Also known as Italian Vegetable Marrow). (55 days). A Summer variety of bush habit. The fruits grow 12 to 16 inches long, 5 inches in diameter and are of a dark green color, marbled with yellow and dark green stripes. The flesh is exceptionally tender and fine flavored. **Pkt.**, 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.

### Best Winter Varieties

**IMPROVED HUBBARD** (100 days). This excellent olive-shaped Squash is large and moderately warted. with a dark bronze-green skin and bright orange-yellow flesh. The flesh is fine grained, thick and of a most delicious flavor. Sweet and dry. **Pkt.**, 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.

**Table Queen** A small, dark green, acorn-shaped, sharply ribbed variety which matures nearly as early as the Summer Squashes. Fruits just the right size to serve in halves and of good quality for baking. The vines are trailing and very productive. **Pkt.**, 10c; ¼ lb., 35c; 1 lb., \$1.00.

**Straightneck, Golden Summer** A selection from the Crookneck squash but with a straight rather than a crooked neck, and thus being more easily packed for shipment. Fruits intensely warted, 18 to 20 inches long, deep orange in color with a thick, meaty neck. **Pkt.**, 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50.

**Hubbard, Blue** A new type of Hubbard squash and said to excel all in the superior quality of its flesh. Form and habit of growth similar to the original Hubbard, but differing in having an extremely hard, blue-gray shell. **Pkt.**, 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.

## Fancy Tomatoes

One ounce will produce 1000 plants; 5000 plants will plant an acre.

**DIRECTIONS FOR PLANTING.** Sow the seed in hotbeds from the middle of February to the last of April in rows 5 inches apart and one-half inch deep or broadcast. When about 4 inches high, transplant into boxes, placing the plants about 4 inches apart. About May 15th they may be set out in the garden 2 feet apart, in rows 4 feet apart.

### Best Early Varieties

**Break o' Day NEW.** See Novelties, page 6.

**SELECTED LIVINGSTON'S GLOBE** (95 days). The most popular shipping Tomato known and a favorite for home gardens. It is the best early purple variety in existence. The Tomatoes are large, always smooth, and have a very firm flesh with few seeds. The color is a purplish pink, without the slightest trace of yellow when ripe. The quality is mild, delicious and hard to beat. Its ability to resist blight is remarkable. We have a specially selected strain of Livingston's Globe and can recommend it to the most critical growers. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

**Cooper's Special** (95 days). A so-called self-topper Tomato used in great quantities throughout the Florida trucking districts. It is a globe-shaped sort similar in color and appearance to Livingston's Globe, but not quite as large. The plants are short and of vigorous growing habit. Cooper's Special is a big yielder and excellent for shipping and canning. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

**BONNY BEST** (88 days). A splendid selection from Chalk's Early Jewel, but maturing about a week earlier. The Tomatoes are of medium size, uniformly smooth and solid, and have a rich bright scarlet color from stem to blossom end. An enormous producer and good for shipping and market. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

**Super Bonny Best** Special hand-selected seed. **Pkt., 25c; oz., \$4.00.**

**Gulf State Market** (95 days). One of the finest early Globe Tomatoes we have to offer. The fruits are of medium size, purple colored and ripen about the same time as Livingston's Globe. The Tomatoes are smooth and attractive, free of cracks, and the flesh is exceptionally solid and juicy. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

**Earliana (Sparks')** (85 days). An extremely early and prolific variety that is ready for the market several days ahead of any other variety. The Tomatoes are medium size, smooth, deep red color, and fine quality for early use. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

Selected Livingston's Globe.

**Yellow Plum** (95 days) Bright yellow, small Tomatoes, having the size and shape of a plum. Used for preserving. **Pkt., 10c; oz., 60c; ¼ lb., \$1.75; 1 lb., \$6.00.**

**Yellow Pear** (95 days). A handsome small Tomato of delicious quality used for preserving, salads, and in making marmalade. They are similar to Yellow Plum, but more pear-shaped and have a distinct neck. **Pkt., 10c; oz., 60c; ¼ lb., \$1.75; 1 lb., \$6.00.**

**John Baer (Special Strain).** (85 days). An early Tomato of very attractive appearance yielding a big crop of rich, scarlet-red fruits. It is most valuable because of its extreme earliness, good size, solid flesh and heavy yield. We recommend our strain very highly. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

**June Pink** (85 days). A purple-pink fruited variety maturing about the same time as Earliana, considered by many to be the best of the early pink varieties. The Tomatoes are smooth, slightly flattened and of medium size. The flesh is well flavored. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

New Marglobe Tomatoes.

### Best Second Early and Late Varieties

**MARGLOBE** (100 days). (Resistant to Nailhead Rust and Fusarium Wilt). This wonderful Tomato has enjoyed a most sensational rise in popularity and is acclaimed everywhere for its handsome appearance, and its value for shipping and canning. It was introduced by Prof. Pritchard of the Department of Agriculture and is highly resistant to wilt, somewhat resistant to blight and leaf spot, and the fruits are resistant to nailhead rust and "puffiness," so prevalent in some trucking sections. The plants are distinguished by their vigorous, healthy growth and darker green foliage, being more stocky and not so tall as other varieties. The beautiful bright red Tomatoes are large and round, very meaty and almost coreless. The skin is exceptionally smooth and will not crack. Very productive. Every gardener should try at least a small quantity of this new Tomato. We give Marglobe first place as a main crop red Tomato. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

**Livingston's Beauty** (110 days). A very productive main crop variety with large, smooth, solid, purplish pink fruit. The plants make a strong growth and bear abundantly. One of the best for table use. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.50.**

**Stone** (110 days). A favorite Tomato with truckers and canners and equally popular for home gardens. The vines are strong and very productive, and the Tomatoes are always of good size and quality. The fruits are a bright scarlet color, perfectly smooth and solid, round and will stand shipping and long distance hauling remarkably well. The flesh is solid and of splendid texture and flavor. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.50.**

**Red Rock** (115 days). A large size, bright red, solid and smooth-skinned Tomato of excellent shape and superior texture and flavor. It is a main crop variety and is very productive. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.50.**

Bonny Best Tomato.

## Fancy Tomatoes

**Ponderosa** (Also known as Beefsteak). (110 days). The largest Tomato in cultivation, frequently weighing more than 2 pounds each. The fruits are a beautiful dark crimson color, uniformly smooth and astonishingly solid for their immense size. It has an excellent flavor and is a good slicer. **Pkt., 10c; oz., 50c; ¼ lb., \$1.75; lb., \$6.00.**

**Early Detroit** An early medium size variety with smooth, purple fruit. The vines are vigorous and very productive. Excellent shipper. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.**

**Norton's Wilt Resistant** (120 days). Developed by the United States Department of Agriculture. The Norton resembles the Stone in color and shape, and is used largely in districts troubled with Tomato diseases. **Pkt., 10c; oz., 50c; ¼ lb., \$1.75; lb., \$6.00.**

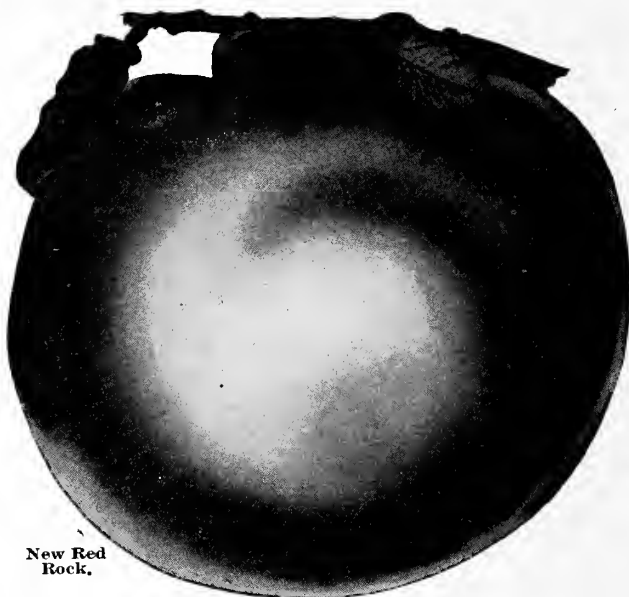
**White's Excelsior** (110 days). A popular main crop variety producing large purple fruits that are heavy, solid and evenly colored. Has good shipping qualities but seems more easily affected by blight than some of the other varieties. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.**

**Trucker's Favorite** (110 days). A purple-fruited Tomato of excellent quality. The fruits are large, somewhat flattened, invariably smooth, and the flesh is of the finest texture and quality. A main crop variety maturing about the same time as Matchless. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.**

**Dwarf Stone** The best of the dwarf tomatoes; fruits large, smooth, round, very solid and of a deep scarlet color. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.**

### Choice Tomato Plants

Ponderosa, Stone, Livingston's Globe, Marglobe and Livingston's Beauty. 1 dozen for 20c; 4 dozen for 75c; 8 dozen for \$1.20.



New Red Rock.

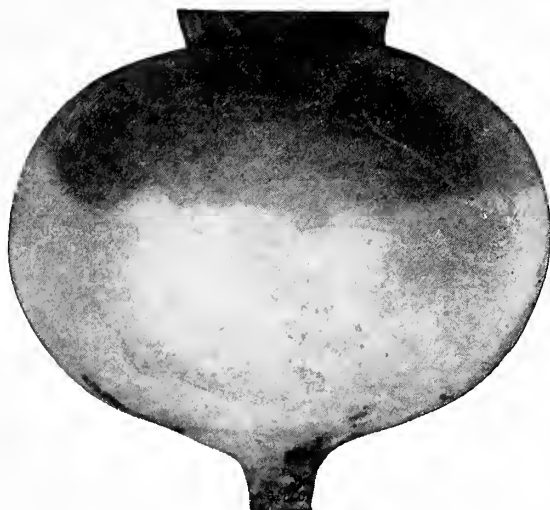
## Tested Turnips

One ounce will sow 150 feet of row; 2 lbs. will plant an acre broadcast, 1 pound in rows.

**DIRECTIONS FOR PLANTING.** For early Turnips sow the seed early in the Spring in rows 18 inches apart; thin out seedlings to 3 to 4 inches apart. For succession sow every two weeks until the middle of May. Fall crops sown during July and August. Most gardeners sow Turnips broadcast.

**PURPLE TOP WHITE GLOBE** Selected Imported Strain. Also known as Red Top White Globe. The strain we offer is truly superior to the average stock of Purple Top White Globe. The roots are large, purple or dark red above ground, white below, and when in best condition for the table, are about 3 inches in diameter, but can be grown much larger. Flesh white, fine-grained and tender. **Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c; 5 lbs., \$2.50.**

**EXTRA EARLY PURPLE TOP MILAN** (45 days). The earliest of all Turnips. Has medium sized bulbs, very much flattened, smooth skin and crisp, white flesh of fine quality. The upper portion of the Turnip is reddish purple and the lower portion is pure white. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.50.**



Purple Top White Globe.

**Large White Globe** (70 days). A large globe-shaped variety with smooth white skin. The flesh is pure white, solid, sweet and of excellent quality and texture. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.50.**

**Japanese Louse Proof** An exceptional variety of recent introduction. All white, large, globe-shaped, heavy top, and unusually sweet and tender. One of the outstanding characteristics of this Turnip is that lice will not destroy the foliage. **Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.**

**White Egg** (50 days). An early oval or egg-shaped variety of medium size, having a tendency to grow half out of the ground. The skin is smooth and clear white, and the flesh is firm, mealy and well-flavored. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.50.**

**Purple Top Strap Leaf** (55 days). The roots of this early variety are quite flat, the upper portion purplish red and the lower portion white. **Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c; 5 lbs., \$2.75.**

**Seven Top or Winter Greens** (30 days). This variety does not produce edible roots, but is grown extensively for the leaves which are cooked and eaten as "greens." They make a tasty addition to the diet when prepared like spinach, and are considered one of the most delicious greens in existence. **Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c; 5 lbs., \$2.25.**

**Yellow Globe** (75 days). The roots are medium to large in size, globe-shaped, the skin being a clear yellow tinged with green at the top. The flesh is light yellow, firm and of good quality. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.50.**

## Tobacco Seed

One ounce will produce plants for an acre.

**DIRECTIONS FOR PLANTING.** Start the plants early in frames or seed bed, using well enriched soil. When weather has become warm and settled, transplant to the open ground in rows 4 feet apart, allowing about 3 feet between each plant. Cultivate like corn.

**Missouri Broad Leaf** Good to use in the northern part of Cotton Belt. A good yielder. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.**

**Havana** Large, long, fine quality leaf; matures early; fine for cigars. **Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.**

**White Burley** Heavy yielder and good quality. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.**



# A Distinctive Service

## is Offered by Our Flower Seed Department

**D**UE to the ever-increasing demand for a larger selection of flower seeds, we have enlarged our list this year, omitting several varieties of questionable value, and adding many newer and better introductions from the most eminent European and American specialists. You can plant our flower seeds with ease of mind and confidence that they are the best obtainable. We especially solicit the patronage of the discriminating gardeners accustomed to sending to far-off eastern and European sources for their seeds. We have complete and reliable stocks here in St. Louis, and can conscientiously meet this out-of-town competition.

To assist our customers in their selection, our Flower Seeds are grouped under four separate headings:

- 1—**ANNUALS.** Flowers that bloom the first year from seed and last but one year.
- 2—**HARDY PERENNIALS.** Plants which are hardy and last for years.
- 3—**ROCK GARDEN PLANTS.**
- 4—**GREENHOUSE PLANTS.** Tender plants for growing in the greenhouse or conservatory.

## How to Grow Annual Flowers From Seed

All annuals can be sown outdoors in the garden in May, either in a specially prepared seed bed, for later transplanting, or in their permanent location. Some annuals, on account of their delicate root systems, are very difficult to transplant, such as Poppies, Mignonette, Blue Lace Flower, Sweet Sultan and Eschscholtzia. These should be sown in the location desired and thinned out.

The majority of annuals, however, are benefited by transplanting, and these are best started either in a cold frame or hotbed (see below), or in a prepared seed bed outdoors. This bed should be of finely pulverized soil, mixed on the top with some sand or humus. The seed should be sown in shallow drills, each variety carefully labeled. Cover the small seeds with not more than  $\frac{1}{4}$  inch of soil; the finest should only be pressed into the soil. Water carefully through a fine rose, and keep the soil always moist but not real wet. On hot sunny days, shade the bed from the sun. As soon as the seedlings have three or four leaves they should be transplanted to their permanent location. When transplanting, leave sufficient space between the plants for proper development. Most annuals grow best in a rich soil and an open, sunny position.

## Starting Seeds in Hotbeds or Cold Frames

Many annuals, if sown outside in May, will not bloom until late Summer. To have them in bloom early they have to be started early in either hotbeds or cold frames. These consist of a wooden or stone framework, generally 4 x 6 feet, over the top of which is set a glass sash or frame (see page 75). The back of the frame should be about 18 inches and the front end 12 inches high. A southern exposure is preferred. For a hotbed, dig out two feet of soil from the bottom and fill in with two feet of fresh horse manure to supply heat. Tramp this down solid, and place on top four or five inches of loose, mellow soil, mixed with humus. Plunge a thermometer into the soil and as soon as the temperature recedes to 90 degrees, the seed may be sown.

Seed may be sown in a hotbed as early as February and March, as the heat from the manure lasts for months. In a cold frame, which consists of the frame minus the layer of manure, seed may be sown in late March and April.

Snapdragons, Asters, Begonias, Carnations, Celosias, Cosmos, Cobaea, Dablias, Dianthus, Heliotrope, Lobelia, Myosotis, Pansies, Petunias, Phlox, Salpiglossis, Salvia, Stocks, Vinca, Verbenas and Zinnias are some of the most important annuals to be sown in either hotbeds or cold frames.

The seed may be sown either right in the soil in the frame or in small seed boxes, which are generally about 3 inches high, 8 inches wide and 12 inches long. The soil should be well watered before sowing. Sow the seed evenly, but not too thinly, for often with fine seeds, they haven't the strength to break through the soil alone and "unity is strength."

**THE SOWRITE SEED SOWER** will give an even distribution of the smaller seeds and is highly recommended for seeds in boxes and frames. (See page 73).

After sowing, press the soil down with a flat piece of board and cover with paper to prevent too rapid evaporation. This should be removed as soon as the seeds begin to sprout.

Always water through a fine rose, only when necessary, with tepid water, and as much as possible in the forenoon or mid-day on bright, sunny days, for if the soil is too wet over night, the small seedlings will become chilled and damp or rot off. When seedlings have four leaves, transplant in similar boxes one inch apart or singly into small pots. (Neponset Paper Pots are excellent for this purpose and quite inexpensive. (See page 74).

The earliness of starting the seeds will govern the amount and need for transplanting. Ventilate more or less according to the weather and gradually harden the plants, preparatory to setting them out when all danger of frost is past and the soil is warm.

We Give Complete and Specific Cultural Directions on Each Package of Our Flower Seeds

# Seeds of the Annual Flowers

## Abutilon

(Flowering Maple)

A very attractive plant for the cool house and window box, in Winter and early Spring, and for bedding through the Summer. Grows rapidly from seed and blooms perpetually. Leaves are very decorative and sometimes variegated. Pretty bell-shaped flowers borne the year around, in all colors. Height 3 to 4 feet. Pkt., 20c.

## Abronia

**Umbellata Grandiflora Rosea** (Improved Sand Verbena). A charming plant for the rock garden. Like a Verbena in appearance, with large flower umbels of rose-pink with white centered flowers. Very fragrant. Blooms profusely and delights in a poor, dry soil in full sunlight. Height 9 inches. Pkt., 10c.

## Acroclinium

**Double Mixed.** A pretty Strawflower similar to Helichrysum, but blossoms are white or pink, with yellow center. Very free bloomer. Good for Winter bouquets. Height 2 feet. Pkt., 10c.

**AFRICAN DAISY.** See Arctotis and Dimorphotheca.

## Ageratum

One of the best plants for bedding. They bloom the whole Summer long and always look well, even after rain. They are best started early in a hot-bed or cold frame and set outside in May, but can also be grown satisfactorily from seed sown outdoors in May.

**Blue Perfection.** Deep amethyst-blue. The best cutting variety. Height 18 inches. Pkt., 10c; ¼ oz., 30c; oz., \$1.00.

**Little Blue Star.** A variety of very dwarf, even growth, used largely for edging. Bright blue flowers. Height 4 to 5 inches. Pkt., 20c; ¼ oz., \$1.00.

**Imperial Dwarf Blue.** Clear blue. Height 8 inches. Pkt., 10c.

New "Blue Cap." (See Novelties, page 4).

**Little Dorritt.** The prettiest white variety. Very profuse bloomer. Compact growth. Height, 9 inches. Pkt., 10c.

**Mauve Beauty.** Beautiful mauve colored flowers. Height, 9 inches. Pkt., 15c.

### COLLECTION

1 packet each of the above varieties for 50c, Novelties excepted.



Ageratum, Little Blue Star.

## Amaranthus

**Caudatus** (Love-Lies-Bleeding). Drooping red flower spikes. Height 3 feet. Pkt., 10c.

**Cruentus** (Primrose Feather). Dark red, feathery flowers. Height 3 feet. Pkt., 10c.

**Salleifolius** (Fountain Plant). Long willow-like foliage, droops gracefully. Gorgeous colorings of orange, bronze and rose. A very decorative plant and well worthy of a place in your garden. Height 3 feet. Pkt., 20c.

**Tricolor Splendens** (Joseph's Coat). Showy foliage plant—leaves scarlet, green and gold. Height 2½ feet. Pkt., 10c.

## Ammobium

**Alatum Grandiflorum.** A pretty pure white everlasting or strawflower. Grows well in sandy soil. Delightful for Winter bouquets. Height 2 feet. Pkt., 10c.

## Palmer's Superb Antirrhinum (Snapdragons)

This popular flower has been vastly improved upon in recent years, and now, for a brilliant show of colors, few flowers surpass it. Huge, fragrant blossoms are produced on long, stiff spikes. They are valuable either for cutting or bedding. Our list includes some of the very finest "Snaps" ever raised.

Sow seeds indoors in a frame in March for early bloom, and later, outside in May. If wanted for Winter flowering, cut back in September. Snapdragons succeed best in a position in full sunlight, where they will have a free circulation of air.

**Antirrhinum Nanum Grandiflorum** "Majestic." A new novelty in 5 colors. (See Novelties, page 4).

### SUPERB NEW SNAPDRAGON, BLOSSOM TIME

This sensational Snapdragon is a clear shade of iridescent pink, with a golden yellow throat. The flowers, of tremendous size, are held regularly all the way up the long, straight spike. Do not miss this glorious new variety. Pkt., 50c; ¼ oz., \$1.00; ½ oz., \$3.75.

### LARGE FLOWERING HALF-DWARF SNAPDRAGONS

A very desirable type about 18 inches high. Best for bedding.

Silvery Pink. Pearly pink .....	Pkt. \$0.10
Empress. Crimson .....	.10
Golden Queen. Clear yellow .....	.10
Grenadier. Orange-scarlet .....	.10
Purity. Pure white .....	.10
The Fawn. Rose and gold .....	.10
Choice Mixed. All colors. Pkt., 10c;	
¼ oz., 40c; oz., \$1.50.	

### COLLECTION

1 pkt. each of above 6 varieties, 50c.

### LARGE FLOWERING GIANT SNAPDRAGONS

(Height 2½-3 feet).	Pkt.
Crimson King. Rich garnet-crimson ..	\$0.10
Fire King. Brilliant orange-scarlet ..	.10
Harmony. Terra cotta shaded ..	.10
Golden King. Pure yellow .....	.10
Queen Victoria. Pure white .....	.10
Rose King. Silvery rose .....	.10
All Colors Mixed. Pkt., 10c; ¼ oz., 40c;	
oz., \$1.50.	

### COLLECTION

1 pkt. each of above 6 varieties, 50c.



Antirrhinum—Snapdragon.

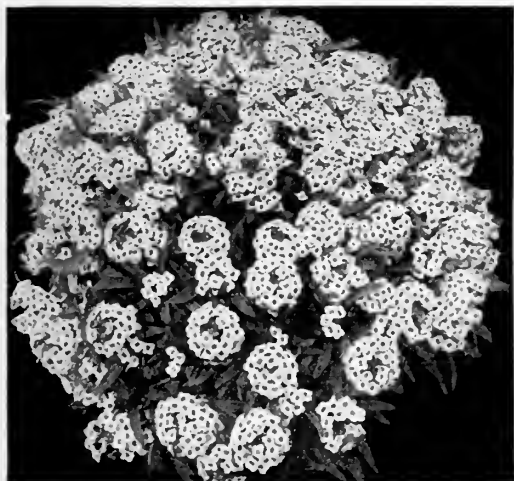
## Maximum or Super-Giant American Snapdragons

A new magnificent strain of monster Snapdragons produced on long, tall, robust flower spikes. Individual flowers are larger than any strain introduced heretofore. Every one listed is a real gem. Several are new, colors never before seen in Snapdragons. Height 4 to 5 feet.

Appleblossom. Rosy pink, yellow lip.	Pkt. \$0.15
Bunch of Lilac. Delicate lilac changing to purple .....	.15
Canary Bird. Canary-yellow, golden yellow center .....	.20
Cerberus. American Beauty rose, golden yellow lip .....	.15
Copper King. Velvety copper scarlet.	.15
Diamond. Golden yellow, delicate lilac throat .....	.15
Golden Queen. Deep golden yellow self .....	.20
Indian Summer. Velvety copper. This famous variety has created a reputation for itself wherever grown ..	.25
Purple King. Deep glowing purple.	.15
Snowflake. Pure white, yellow throat.	.15
The Rose. Clear rose-pink self ....	.20
Wallflower. Brownish orange suffused copper-red .....	.15
Superfine Mixture of American "Snaps."	
Pkt., 15c; ¼ oz., 75c.	

### COLLECTION

1 pkt. each of above 12 varieties, \$1.75.



Sweet Alyssum.

## Sweet Alyssum

Indispensable in your garden. Will grow anywhere and is best sown in its permanent location; blooms in 6 to 7 weeks and continues until frost. Unsurpassed as an edging or as a base planting for Gladioli and Rose beds. For early flowers sow in hotbed in March.

**Little Gem or Carpet of Snow.** Very dwarf and compact; literally covered with white flowers. Undoubtedly the best for edging work and window boxes. Height 6 inches. Pkt., 10c; ¼ oz., 25c; oz., 60c.

**Maritimum.** Pure white and fragrant; of trailing habit. Height 1 foot. Pkt., 10c; oz., 40c.

**Liliput Bouquet.** Even more dwarf than Carpet of Snow. This is a fine variety for carpet beds and low edging. Height 3 inches. Pkt., 15c; ¼ oz., 40c.

**Lilac Queen.** A pretty lilac color. Delightful planted with a white variety. Height 9 inches. Pkt., 10c; ¼ oz., 25c; oz., 75c.

**AUSTRALIAN PEAVINE.** See Dolichos.

**BABY'S BREATH.** See Gypsophila.

**BABY'S EYES.** See Nemophila.

## Arctotis Grandis

(African Daisy)

Large, daisy-like flowers on long stems; pure white, black center with reverse of petals lilac-blue. Blooms from July until late frost. Height 2½ feet. Pkt., 10c.

## Anagallis

**Grandiflora Mixed.** Dainty border plant used for edging. Just the thing for your rock garden. Comes in bright colors. Height 8 inches. Pkt., 15c.

**ANGEL'S TRUMPET.** See Datura.

## Annual Blue Anchusa

This useful annual resembles the Forget-me-not, but the flowers are larger and a deeper blue. Very easily grown and blooms all Summer long. Pkt., 10c; ¼ oz., 25c.

**HARDY ANCHUSA.** See pages 50 and 54.

# Palmer's Magnificent Asters

To be able to cut abundantly over the longest possible period, several sowings should be made of the different types. The first sowing should be made in the hotbed in March, then again in a cold frame in April and later out-of-doors in May. Keep the young seedlings on the dry side, as too much water at this time often starts the well known Aster stem rot, which does not manifest itself until the plants are about to bloom, when they suddenly turn yellow and die. Asters will thrive in any good soil, but the addition of some bone meal and lime will prove very beneficial. Plants should be set out in an open, sunny position, setting them 1 foot apart in the rows and 1½ to 2 feet in between rows. Cultivate between the plants freely and an application of even quantities of lime and wood ashes will arrest disease. We do not advise growing Asters on the same ground two years in succession.

## Early Asters (July-August)

### EARLY WONDER ASTER

The earliest of all Asters. They bloom in July. Flowers are carried on long, stiff stems and are excellent for cutting. Flowers are large and full, of the Comet type. Height 18 inches.

Pkt.	Pkt.
Light Pink .....15c	Dark Blue .....15c
White .....15c	Caroline-Rose. 15c
Lavender .....15c	
Finest Mixed. ¼ oz., 75c	.....10c

### COLLECTION

1 pkt. each of above 5 varieties. 60c.

### EARLY BRANCHING OR ROYAL ASTERS

A very fine, dwarf, branching variety bearing a great profusion of medium size, compact flowers. Height 2 feet.

Pkt.	Pkt.
Lavender .....10c	Shell-Pink .....10c
Purple .....10c	Pure White .....10c
Rose-Pink .....10c	
Mixed. All colors. ¼ oz., 50c	.....10c

### COLLECTION

1 pkt. each of above 5 varieties. 35c.

## Midseason (August)

### NEW ASTER, CRIMSON GIANT

Plants of upright growth. Flowers large, double, bright crimson and very showy. This is one of the most fascinating colors viewed from a distance. Height 2½ feet. Per pkt., 10c; ¼ oz., 75c.

### CREGO'S IMPROVED GIANT COMET ASTERS

The finest of all Comet Asters. Tremendous, full, shaggy, well formed flowers borne on long stems. Fine for cutting. Height 2½ feet.

Pkt.	Pkt.
Rose-Pink .....10c	White .....10c
Shell-Pink .....10c	Light Blue .....10c
Crimson .....10c	Dark Blue .....10c
Mixed. All colors. ¼ oz., 50c	.....10c

### COLLECTION

1 pkt. each of above 6 varieties. 50c.

## MIDSEASON ASTERS—Continued.

### NEW SUNSHINE ASTERS

A new and distinct type of Aster. Flowers have long wavy petals and cushion center of a different shade. Height 1½ ft. Fine for bedding.

Pink .....25c
Blue .....25c
White .....25c
Lavender .....25c
Fine Mixed .....20c

### COLLECTION

1 pkt. each of 4 colors in the New Sunshine Asters for .....75c

### NEW IMPROVED CALIFORNIA GIANT ASTERS

This wonderful new achievement in Asters combines the huge, shaggy flower of the Crego type with the long, non-lateral branching stems and sturdy habit of growth of the American Beauty type. Flowers measuring 5 to 6 inches in diameter are borne on stems 30 inches long. The colors are exceptionally fine. We recommend this Aster very highly. Height 3 feet.

Pkt.	Pkt.
Pure White .....15c	Deep Purple.....15c
Peach Blossom 15c	Deep Rose .....15c
Light Blue .....15c	
Fancy Mixed. ¼ oz., \$1.00	.....15c

### COLLECTION

1 pkt. each of above 5 varieties. 60c.

## Late Asters (EARLY SEPT. TILL FROST)

### AMERICAN BEAUTY

The finest late cutting Aster. Plants of branching habit. Flowers are very large—sometimes measuring 6 to 7 inches across, borne on stems 24 inches long. They commence to bloom in early September and continue until destroyed by frost. Height 3 feet.

Pkt.	Pkt.
Lavender Gem 15c	Autumn Purple 15c
September Pink 15c	White Beauty. 15c
American Beauty Rose .....15c	
Mixed. All colors. ¼ oz., 75c	.....15c

### COLLECTION

1 pkt. each of above 5 varieties. 60c.

## KING ASTERS—(Needle Type)

A distinct type of sturdy habit with large, double flowers and attractive quilled petals. Height 1½ to 2 feet.

Pkt.	Pkt.
Brilliant Rose .....10c	Pure White .....10c
Violet .....10c	Shell Pink .....10c
Mixed. All colors. ¼ oz., 50c	.....10c

## SPECIAL ASTER COLLECTION

One packet each of 6 favorite colors, in different varieties, our selection, in special lithographed packet for only .....50c

## SINGLE CALIFORNIA ASTERS

The single Aster is becoming more and more popular. Flowers carried on long stems and are dainty and daisy-like, making an excellent flower for vases.

Pkt.	Pkt.
Mauve Queen .....15c	Pink Pearl .....15c
Violet Queen .....15c	White Queen .....15c
All Colors Mixed. ¼ oz., \$1.00	.....15c

**HARDY ASTERS.** See pages 50 and 54.



American Beauty Aster.



Begonia Semperflorens, Vernon.

## Balloon Vine

A very rapid growing annual that succeeds best in a light soil and sunny position. White blossoms, light green balloon-shaped fruits. Height 5 to 10 feet. Per pkt., 10c.

## Balsam

(Lady's Slipper)

A half-hardy annual of easiest culture. Prefers a rich soil and plenty of water. For early bloom start seed in a cold frame in April. One of the old-time favorites, Balsam still deserves a place in your garden. Height 2 feet. Per pkt., 10c.

White Salmon-Rose Scarlet  
Pale Yellow Violet Mixed, 60c per oz.

### COLLECTION

1 packet each of above 5 varieties for 40c.

## Balsam Apple

(Mormordica Balsamina)

An ornamental vine attaining 10 to 15 feet in height, with orange colored apple-shaped fruits, which are used for medicinal purposes. Per pkt., 10c.

## Balsam Pear

(Mormordica Charantia)

Bright yellow pear-shaped fruit, larger in size than the Balsam Apple. The vines grow 10 to 15 feet in height. Pkt., 10c.

BACHELOR'S BUTTON. See Centaurea or Gomprena.

## Begonia

Very showy everblooming plants, used extensively for bedding. Will grow equally well in sunny or shady positions. Seed should be sown in February or March in the hotbed. The seed is very fine and should only be pressed into the soil and barely covered. Begonias are also superb for Winter pot plants.

Gracilla, Prima Donna. Rose-pink shading to carmine. Pkt., 15c.  
Gracillis Luminosa. Flery scarlet. Pkt., 20c.  
Semperflorens, Erfordia. Bright rosy carmine. Pkt., 15c.  
Semperflorens, Vernon. Orange-carmine, deep red foliage. Pkt., 15c.  
Semperflorens, Mixed. Pkt., 15c.

## Begonia, Tuberous Rooted

These profusely flowering pot plants are becoming very popular for bedding in shady places. Individual florets measure from 2 to 3 inches in diameter. Sow seed in hotbed in February and March and you will have plants for setting out in May. For bulbs, see page 62.

Palmer's International Prize Single Mixed. A famous European specialist's finest strain. Includes all bright colors. Pkt., 25c; 5 pkts., \$1.00.

Palmer's Gold Medal Double Mixed. Our strain will produce 80 per cent of huge double fringed flowers. Pkt., 30c; 4 for \$1.00.

## Bartonia Aurea

A native of California. Large, single, yellow flowers borne profusely all Summer long on compact, low bushes. Make a very showy edging plant. Can be sown where it is to grow and prefers a moist situation. Height 1 foot. Pkt., 10c.

## Bean - Scarlet Runner

A rapid growing climber bearing bright scarlet flowers and later edible podded beans. Very popular in England. Height 8 feet. Pkt., 10c; ¼ lb., 25c; lb., 60c.

## Brachycome Iberidifolia

(Swan River Daisy)

Mixed. Delightful blue and white flowers resembling Cinerarias, borne on slender stems, with graceful foliage. Plants are profuse bloomers. Very useful for edging work and make pretty pot plants in Winter. Sow seed in hotbed in March. Height 9 inches. Pkt., 10c.



Calliopsis, Golden Wave.

## Cacalia

(Tassel Flower - Flora's Paint Brush)

A showy annual of very easy culture, with bright red and yellow tassel-like flowers. Blooms from July to September. Height 18 inches. Pkt., 10c.

## Canary Bird Vine

(Tropaeolum Canariense)

Decorative rapid climber with nasturtium-like foliage. Flowers are sulphur-yellow, lacinated at edges and from a distance look like canary birds perched along the vine. Height 10 feet. Pkt., 10c.

## Canna (Indian Shot)

Blooms the first season if sown early. Make an incision in the seed with a file and soak in warm water for 24 hours before planting. This hastens germination. Produces broad, massive leaves and spikes of gorgeous flowers.

French Mixed. A fine collection of the dwarf large flowering type. Pkt., 10c; oz., 25c.  
CANNA ROOTS. See page 61.

## Cardinal Climber

One of the most beautiful climbers. A rapid grower, it reaches a height of 25 or 30 feet in a season. The flowers are trumpet-shaped and are a rich cardinal-red, and bloom until frost. Pkt., 10c; ¼ oz., 40c.

## Calendula (Pot Marigold)

Calendulas are very easy to grow, and bloom without interruption until severe frost. They are a dandy cut flower, and are very showy in borders. Sow them where they are to grow and thin out, leaving plants 12 inches apart. For early bloom, start in hotbed in March and April. Height 12 to 18 inches.

Ball's Improved Orange. A vast improvement over the old variety. Colossal double, glowing orange flowers of perfect form. Pkt., 15c; oz., 75c.

Campfire or Sensation. (See Novelty Section page 4 for description). Pkt., 25c; 5 pkts., \$1.00.

Radio. (See Novelties, page 4).  
Prince of Orange. Rich orange-red, double. Pkt., 10c; oz., 60c.

Lemon Queen. Pale yellow, double. Pkt., 10c; oz., 60c.

Golden King. Rich golden yellow, double. Pkt., 10c; oz., 60c.

Meteor. Creamy white with orange stripes. Pkt., 10c; oz., 60c.

Nankeen. Double creamy white flowers, slightly flushed apricot. Pkt., 10c; oz., 60c.

Mixed. All colors. Pkt., 10c; oz., 40c.

### COLLECTION

1 packet each of the above varieties for 50c, Novelties excepted.

CALIFORNIA BLUEBELL. See Phacelia.  
CALIFORNIA POPPY. See Eschscholtzia.

## Calliopsis

(Tickseed)

One of the showiest of annuals, and one that will grow in any garden or city yard. The dainty daisy-like flowers of crimson, golden and yellow shades are carried in clusters on graceful stems.

Sow seed in the open and thin out, leaving from 6 to 9 inches between plants. Keep the dead flowers cut off to prolong the blooming period into Fall. Height 9 to 18 inches.

Atroanginea. Dark wine-red with velvety texture on petals. Pkt., 10c.

Golden Wave. Pure golden yellow with brown center. Pkt., 10c.

Tiger Star. Rich reddish brown tinged with golden yellow. Pkt., 10c.

Tom Thumb "Dazzler." Very large flower. Rich maroon-red center with a broad golden yellow border. Pkt., 25c; 5 pkts., \$1.00.

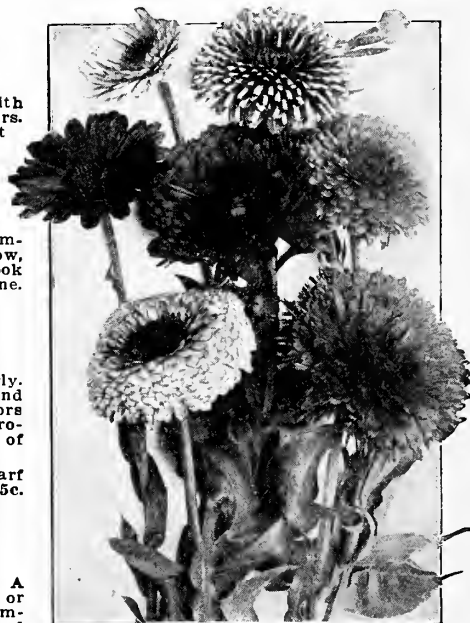
Crown of Gold. Pure golden yellow. Pkt., 10c.

Dwarf Varieties Mixed. Pkt., 10c; oz., 40c.

### COLLECTION

1 packet each of the above 5 varieties for 35c.

COREOPSIS. See pages 51 and 54.



Calendula—Pot Marigold.



## Candytuft

(Iberis)

This is another of the old-fashioned favorites that still holds its place in the garden of today. It can be sown outside right where it is to bloom. To ensure continuous flowers, make successive plantings at intervals of two weeks from May until July. It blooms in 8 weeks from sowing. Use this delightful annual principally to fill in empty corners, for edging and on the rockery. Height 1 foot.

Carmine	.....10c	Rose-Pink	.....10c
Crimson	.....10c	Lilac	.....10c
Flesh Pink	.....10c	White	.....10c
Mixed, All colors.	Oz., 40c		.....10c

### COLLECTION

1 pkt. each of above 6 varieties for 50c.

**Giant White Hyacinth-Flowered.** Immense trusses of pure white flowers, often 6 inches long. The largest of all Candytufts. Plants well branched, excellent for cutting. Pkt., 15c; oz., 80c.

**HARDY CANDYTUFT.** See pages 48, 61, and 55.

**CARPET OF PINK.** See Saponaria.

**CATCHFLY.** See Silene.

## Carnation

(Giant Marguerite or Malmalson)

These Carnations will bloom the first year from seed, which should be sown in a hotbed in March or April, or outdoors in May. The blossoms are large, deliciously scented and rival even the greenhouse Carnation for cutting. They bloom in about 4½ months from time of sowing. They can also be used for blooming in the greenhouse through the Winter.

White	.....10c	Red	.....10c
Pink	.....10c	Yellow	.....10c
Mixed, All colors.	¼ oz., 50c		.....10c

### COLLECTION

1 packet each of the above 4 varieties for 35c.

**English Gold Medal Perpetual Hybrids.** This splendid strain is raised by the foremost Carnation grower in England. They will bloom in 4½ months from seed and after blooming all Summer can be put in the greenhouse, where they will bloom perpetually through the Winter. Flowers are large, and as beautiful as any seen in florist shops. This strain blooms 80 per cent double, and colors include red, yellow, pink, salmon, purple, crimson and white. To have blossoms over the longest possible time, sow seed in hotbed in February. All colors mixed. Pkt., 50c; 5 pkts., \$2.00.

**HARDY CARNATION.** See page 51.

**CASTOR OIL BEAN.** See Ricinus.

## Chrysanthemum

Beautiful single Chrysanthemums, resembling large daisies, on long stems. Ideal for cutting and showy in the border. They grow very easily from seed and bloom quickly. Sow the seed where it is to grow, thin out. For early flowers start in cold frame in April.

**Morning Star.** Large primrose-yellow. Pkt., 15c.

**Eastern Star.** Yellow with brown disc in center. Pkt., 15c.

**Evening Star.** Deep golden yellow. Pkt., 15c.

**Bridal Robe.** Pure white; double; a fine cutting variety. Pkt., 15c.

**Fringed Double Hybrids.** All colors mixed. Pkt., 10c.

### COLLECTION

1 pkt. each of above 4 varieties, 50c.

**HARDY CHRYSANTHEMUMS.** See pages 51 and 54.

**CIGAR PLANT.** See Cuphea.

**CHINESE FORGET-ME-NOT.** See Cynoglossum.

**CHINESE LANTERN PLANT.** See Physalis.

**CHINESE WOOLFLOWER.** See Celosia Childs.



Carnation—Giant Marguerite.

## Centaurea Imperialis

(Giant Royal Sweet Sultan)

These are a wonderful cutting flower, long stemmed, daintily fringed, most graceful in appearance and delightfully fragrant. They come in a glorious array of colors and are very easy to raise. They bloom from June until frost. Seeds should be sown where they are to grow and thinned out, for they do not like to be transplanted. They like a sweet, rich, loose soil. In preparing the bed use plenty of lime and you will be amply rewarded. Height, 2-3 feet.

Brilliant Rose	....10c	Pure White	....10c
Deep Lavender	....10c	Delicate Lilac	10c
White shaded Rose	10c	Royal Purple	10c
All Colors Mixed, Oz.,	\$1.00		.....10c

### COLLECTION

1 pkt. each of above 6 varieties, 50c.

**CENTAUREA SUAVEOLENS**

(Yellow Sweet Sultan)

Flowers golden yellow. Pkt., 15c.

## White Leaved Centaurea

(Dusty Miller)

The Dusty Millers are used extensively for edging beds and borders. Easily raised from seed.

**Candilissima.** Compact plant. Silvery leaves. Pkt., 10c.

**Gymnocarpa.** Graceful, arching, silvery gray leaves. Pkt., 10c.

**HARDY CENTAUREA.** See pages 51, 54.

## Centaurea Cyanus

(Cornflower)

Also known as Bachelor's Buttons, Bluets, Ragged Sailor, Bluebottle.

Everybody wants some of these delightful flowers in their garden. They are so easily raised and bloom continuously, and so satisfactorily under almost any conditions. They are a splendid cut flower and are very showy, sown in a border with Shirley Poppies. If the soil is rich, the flowers will be larger and will have longer stems. To make sure of having plenty of flowers all Summer, make sowings at intervals of three weeks, commencing in early May. Height 3 feet.

**Double Blue.** A fine selection containing huge, double flowers. Pkt., 10c; oz., 75c.

**Double Pink.** Clear rose-pink. Pkt., 10c.

**Double White.** Pkt., 10c.

**Single Blue Emperor.** Large, deep blue, single flowers. Pkt., 10c; oz., 50c.

**Double Mixed.** All colors. Pkt., 10c; oz., 50c.

### COLLECTION

1 pkt. each of above 4 varieties, 35c.



Centaurea Imperialis.

## Celosia

(Cockscomb)

Free blooming, very showy annuals that can be cut and dried for Winter bouquets. The Dwarf Cockscombs are very showy in the border, and the feathered or plumed varieties look best in large beds, and are the best for cutting. Celosias prefer a light soil. Seed can be started in cold frame in April or sown outdoors in May. The dwarf varieties should be set 9 inches apart and the feathered varieties 18 inches apart.

**CELOSIA CRISTATA**

(Crested or Dwarf Cockscomb)

**Glasgow Prize.** Immense dark crimson combs, bronze foliage. Height 1 foot. Pkt., 10c; ¼ oz., 50c.

**Golden Queen.** Large yellow combs. Height 1 foot. Pkt., 10c.

**Dwarf Varieties Mixed.** Height 1 foot. Pkt., 10c.

**CELOSIA THOMPSONI MAGNIFICA**

PLUMOSA

(Feathered or Plumed Cockscomb)

**Crimson.** Height 3 feet. Pkt., 10c.

**Golden Yellow.** Height 3 feet. Pkt., 10c.

**Finest Mixed.** Height 3 feet. Pkt., 10c.

**CHINESE WOOLFLOWER**

(Celosia Childs)

This variety of Cockscomb has large, globular heads like balls of wool; very effective in masses. Height 3 ft. Pkt., 10c. Crimson Pink Yellow Mixed



Celosia Cristata, Glasgow Prize.



Clarkia—Garland Flower.

## Cosmos

This plant is one of the most useful annuals, blooming from late July until frost. Plants grow 4 to 7 feet tall, have dainty fernlike foliage and bear ideal cutting flowers on long stems.

### PALMER'S MAMMOTH EARLY FLOWERING COSMOS

Grows but 4 feet tall and begins to bloom in July, continuing until frost. Sow seeds outside in May. Pkt., 10c; oz., 60c.  
White      Crimson      Pink      Mixed

#### COLLECTION

1 packet each of above 3 varieties for 25c.

### PALMER'S LATE FLOWERING OR LADY LENOX COSMOS

Huge flowers measuring from 4 to 5 inches across, on long stems. Bushes 6 to 7 feet high. Sow seed in cold frame in April or outdoors in May. Pkt., 10c; oz., 50c.  
White      Pink      Crimson      Mixed

#### COLLECTION

1 packet each of above 3 varieties for 25c.

## Extra Early Double Crested Cosmos

This beautiful double Cosmos will bloom as early as the Mammoth Early Single variety. Plants grow from 3 to 5 feet tall. Our strain will give about 65% of double flowers from seed, the other 35% being semi-double and single.

Pkt.      Pkt.  
Pink Beauty      15c      Crimson King      15c  
White Queen      15c      Mixed. Oz., \$1.00..15c

#### COLLECTION

1 packet each of above 3 varieties for 35c.

### COSMOS, KLONDIKE

A gorgeous orange-yellow form of this popular flower. Blooms in August and September. Pkt., 10c.

CUP AND SAUCER VINE. See Cobaea.

## Cypress Vine

(Ipomoea Quamoclit)

A very useful rapid growing climber, having delicate fernlike foliage, and masses of beautiful, small, star-shaped flowers. Seed should be soaked in water for several hours before sowing. Sow outdoors in May. Height 15 feet. Pkt., 10c; oz., 30c.  
Scarlet      White      Mixed

## Cuphea

(Cigar Plant)

Small scarlet and black tubular flowers resembling a miniature lighted cigar; dark green foliage. Height 10 inches. Flatycentra. Pkt., 10c.

## Clarkia

(Garland Flower)

This delightful annual is not so widely known as it should be. The long, graceful spikes or racemes look like sprays of apple blossoms, and the large, double flowers appear all around the stem from every leaf joint. A very desirable border plant. Sow seed in the cold frame in March and make successive sowings outdoors in May and early June. Height 2 to 2½ feet.

Pkt.      Pkt.  
Double Salmon Queen      10c      Double Purple Prince      10c  
Double Scarlet Queen      10c      Double Mixed. ¼ oz., 30c      10c  
Double White Queen      10c

#### COLLECTION

1 packet each of the above 4 varieties for .....35c

## Cleome Pungens

(Giant Spider Plant)

A quick, easy growing annual with curious rose colored flowers hanging gracefully on slender threadlike stems, resembling spiders legs. Used extensively in parks and on large estates for planting among shrubbery. Height 4 to 5 feet. Pkt., 10c.

## Climbers, Assorted

This mixture contains every kind of quick-growing vine imaginable. Just the thing for planting to hide unsightly fences, etc., in the garden. All colors and varieties mixed. Pkt., 10c.



Didiscus Coeruleus.

## Cobaea Scandens

(Cup and Saucer Vine)

A climber of rapid growth, attaining a height of from 30 to 40 feet in a season. Will cling to any rough surface. In sowing the seed, place edgewise, and cover lightly with soil. For early results, start the seed indoors in April; can also be sown outdoors in May.

Scandens. Large, bell-shaped, purple flowers. Pkt., 10c.

Scandens alba. A white form of the above. Pkt., 10c.

COCKSCOMB. See Celosia.

## Coleus

(Flame Nettle)

The most handsome foliage plant obtainable from seed. The large, broad, heart-shaped leaves are handsomely crimped and frilled and come in all bright showy color combinations of red, yellow, bronze, purple and green. Sow seed in frames in March or April. Height 1 to 2 feet.

Palmer's Exhibition Hybrids. All finest varieties in brilliant mixture. Pkt., 25c.

CONVOLVULUS. See Morning Glory.

CORNFLOWER. See Centaurea Cyanus.

## Cynoglossum Amabile

(Chinese Forget-Me-Not)

See Novelty Section, page 4, for description. Pkt., 25c; 5 pkts., \$1.00.



Extra Early Double Crested Cosmos.

## Dahlia

Few people know that Dahlias can be raised from seed and will bloom the first year. Sow seeds in the hotbed or cold frame in March and April, and they will begin to bloom in August. Our strain has been saved from only prize varieties, some of which, if bought as roots, would cost as much as 75c and \$1.00 each.

Giant Single Mixed. Pkt., 10c.  
Giant Double Mixed. Pkt., 10c.  
Giant Cactus-Flowered Mixed. Pkt., 10c.

DAHLIA ROOTS. See page 58.

## Datura (Angel's Trumpet)

Handsome plants for sub-tropical bedding in Summer, having large, trumpet-shaped, fragrant flowers, 6 to 8 inches long. Prefer a light soil and sunny though sheltered position. Height 4 feet. Mixed colors, pkt., 10c.

DELPHINIUM, Annual. See Larkspur.

DELPHINIUM, Hardy Perennial. See pages 51 and 54.

## Didiscus Coeruleus

(Queen Anne's Blue Lace Flower)

Everyone should have some of this delightful cutting flower. Exquisite large, lacelike flowers of a delicate azure-blue, on long stems. Sow in hotbed in March and outdoors in May, for cutting flowers all Summer long. Likes a good, rich, sweet soil and plenty of sunshine. Pkt., 10c.



Cynoglossum Amabile.

## Dianthus (Chinese and Japanese Pinks)

These delightful favorites are indispensable. The varieties we list are really biennial but can be treated as annuals. Sow outdoors in May, as soon as danger of frost is past, and they will bloom very quickly and continue with a profusion of flowers until late Fall. With slight protection they will live through the Winter and bloom again the next season. For early flowers sow the seed in cold frame in April. Plants should be set out and thinned out to 6 inches apart. They grow in almost any soil, but should have a sunny location.

### SINGLE PINKS

**Crimson Belle.** Single deep red. Pkt., 15c.  
**Venus.** Single orange-scarlet. Pkt., 15c.  
**Eastern Queen.** Single rose-pink. Pkt., 15c.  
**Nobilis (Royal Pinks).** Improved and selected Japanese Single Pinks; colors vary from white to dark red. Pkt., 10c.  
**Princess Pinks (Punctatus).** Delightful variety with fringed flowers; mottled, spotted and flaked in a large range of colors. Pkt., 10c.  
**Single Japanese Pinks Mixed.** (Heddwigl). A splendid assortment of all varieties and colors. Pkt., 10c; oz., 50c.

### COLLECTION

1 packet each of the 5 separate varieties for 50c.

### DOUBLE PINKS

**Fire Ball.** Scarlet. Pkt., 15c.  
**Salmon King.** Salmon-pink. Pkt., 15c.  
**Snowball.** Double white. Pkt., 15c.  
**Violet Queen.** Rich violet. Pkt., 15c.  
**Diadem Pinks.** Various tints of lilac, crimson, maroon to very dark purple, with outer edges fringed and nearly white. Pkt., 10c.  
**Double Japanese Pinks Mixed (Heddwigl fl. pl.).** All varieties and colors mixed. Pkt., 10c; oz., 75c.

### COLLECTION

1 packet each of the 5 separate varieties for 60c.

**DIANTHUS CHINENSIS** (Chinese Pinks). All colors mixed. Pkt., 10c; oz., 75c.

**DIANTHUS BARBATUS.** See Sweet William, pages 52 and 55.

**HARDY PINKS.** See pages 51 and 54.

## Dimorphotheca

(African Daisy)

Very showy, easily raised annuals. They bloom all Summer long from seed sown outside in May. For early flowers start in cold frame in April. Flowers are like a large daisy, 2½ inches in diameter, good for cutting. Bushes compact. Height 12 in.  
**Aurantiaea (African Orange Daisy).** Beautiful golden orange shade. Pkt., 10c.  
**Aurantiaea Hybrids.** Colors range from white to bluish white, lemon-yellow to reddish yellow, pale salmon to golden orange. Pkt., 10c.

## Dolichos Lablab

(Giant Hyacinth Bean)

Rapid annual climber with large, pea-shaped blossoms, later developing into broad purple or white beans. Height, 10 feet. Pkt., 10c. Mixed  
White Purple

## Dolichos Lignosus

(Australian Pea Vine)

Rapid growing evergreen climber carrying large clusters of rose, pea-shaped flowers. Pkt., 10c.  
**DUSTY MILLER.** See *Centaurea Candidissima*.



Eschscholtzia—California Poppy.

## Echinocystis Lobata

(Wild Cucumber Vine)

One of the quickest of all annual vines. Splendid for covering trellises, old tree stumps, fences, etc. Bright green foliage and sprays of white flowers in July and August. Height 20 to 30 feet. Pkt., 10c; oz., 25c.

## Eschscholtzia

(California Poppy)

Very showy and free flowering annual of dwarf habit. Excellent for beds and borders. Sow the seed in late April or early May where the plants are to bloom as they will not transplant. They will bloom until frost. Very pretty planted en masse with cornflowers. Height 1 foot.  
**Golden West.** Yellow, orange center. Pkt., 10c.  
**Rose Queen.** Rosy pink. Pkt., 10c.  
**Crimson King.** Pkt., 10c.  
**Mauve Beauty.** Pkt., 10c.  
**California Poppies Mixed.** All colors. Pkt., 10c; oz., 35c.  
**California Poppies, New Fringed Hybrids Mixed.** Pkt., 20c; ¼ oz., 40c; oz., \$1.25.

### COLLECTION

1 packet each of the above 4 varieties for 35c.

## Erysimum

**Orange Beauty.** (New). Pale orange wallflower-like flowers. This fills the long-felt want of a good orange edging plant. It is scented. Sow the seeds outdoors in May where they are to grow. Height 12 inches. Pkt., 15c.



Dimorphotheca—African Daisy.

## Four O'clocks

(Marvel of Peru; Mirabilis)

Well known free-flowering plants. Supposed to open their blossoms at 4 o'clock in the afternoon but on cloudy days are out all day. Small trumpet-shaped flowers in bright colors. Grow anywhere. Height 2 ft. Pkt., 10c; oz., 20c.  
**FORGET-ME-NOT.** See *Myosotis*, pages 52 and 55.  
**FLAME NETTLE.** See *Coleus*.

## Fuchsias

Well known pot plant and greenhouse plant. Very decorative for window boxes. Sow seed in hotbed in February or March. Mixed, pkt., 35c.

## Gaillardia

(Blanket Flower)

Annual Gaillardias bloom quickly from seed and flower the whole Summer long. Excellent for cutting. Flowers are single or double, in combinations of red, yellow and orange.  
**Palmer's Single Annual Mixed.** Pkt., 10c; ¼ oz., 25c.  
**Palmer's Double Annual Mixed.** Pkt., 10c; ¼ oz., 25c.

**HARDY GAILLARDIA.** See pages 51, 54.  
**GARLAND FLOWER.** See *Clarkia*.



Gaillardias.

## Everlastings or Strawflowers

We offer a special collection of 12 of the easiest-to-grow Strawflowers. Not only decorative in the garden but when dried retain their color and make an effective Winter bouquet.

### COLLECTION

12 different sorts ..... 50c

## Euphorbia

**Variegata (Snow-on-the-Mountain).** Very popular foliage plant. Bushy plants with broad, green leaves veined and margined with white. Height 2½ feet. Pkt., 10c.  
**Heterophylla (Annual Poinsettia or Fire-on-the-Mountain).** Resembling the Poinsettia in habit and color, with glossy, green leaves that change in midsummer to orange-scarlet. Height 3 feet. Pkt., 10c.

## Ferns

Just the thing for shady, moist places in your garden. It is more interesting to raise them yourself from seed. Sow in rich, sandy loam and, if possible, keep in a temperature of about 60 degrees until they germinate.  
**Hardy Varieties Mixed.** Pkt., 15c.

**FLAX, ANNUAL.** See *Linum*.

**HARDY FLAX.** See *Linum Perenns*, pages 51, and 55.

**FEVERFEW.** See *Matricaria*, pages 52, 55.

## Geranium

Invaluable bedding plants easily raised from seed. Sow in March or April in cold frame and they will bloom in July. Our strain is raised by a European specialist and includes many new varieties.  
**Zonale Gold Medal Mixture.** Pkt., 10c.  
**GILLIFLOWER.** See *Stocks*.

## Godetia

This is another annual that is not grown as much as it should be in America. It will thrive in poor soil and partial shade and bloom profusely throughout June, July and August. Blossoms resemble Azaleas and are carried on long spikes. Excellent for cutting. Height 2 feet. Colors include pretty red and rose shades. Choice Mixed, pkt., 10c; ¼ oz., 25c.  
**GOLDEN FEATHER.** See *Pyrethrum*.

## Gomphrena

(Globe Amaranth; Bachelor's Buttons)

A very ornamental everlasting plant with bright colored flowers resembling heads of clover. They retain their color when dried and are fine for Winter bouquets. Pkt., 10c.  
Pink Purple Orange Mixed



Maroon Prince Helianthus.

## Gourds (Ornamental)

Annual climbers that form curiously shaped fruits on vines 10 to 20 feet high. Sow the seed like you would squash or cucumber in hills 3 feet apart and allow 3 plants to grow in each hill. Useful for covering arbors, fences or stone walls

- Dipper or Calabash. Pkt., 10c.
- Japanese Nest Egg. Egg-shaped. Pkt., 10c.
- Hercules Club. Club-shaped. 4 feet long. Pkt., 10c.
- Luffa or Dish Rag. Pkt., 10c.
- Mock Orange. Orange-shaped. Pkt., 10c.
- Sugar Trough. Pkt., 10c.
- Choice Mixed. All kinds. Pkt., 10c; oz., 25c.

## Grasses, Ornamental

These grasses are grown for garden decoration and Winter bouquets.

- Job's Tears (Colx Lachrymae). Broad, corn-like leaves. 2 feet. Pkt., 10c.
- Zebra Grass (Eulalia Zebrina). Light green leaves with bars across foliage. 6 feet. Pkt., 10c.
- Pampas Grass (Gynerium Argenteum). White silvery plumes. 5 feet. Pkt., 10c.
- Purple Fountain Grass (Pennisetum Rupeellianum). Green foliage and purplish plumes. 3 feet. Pkt., 10c.

## Grevillea Robusta

(Silk Oak)

This dainty greenhouse plant can be successfully grown as an annual. Forms a neat little shrub with silky, fernlike foliage. Pkt., 15c.

## Gypsophila

(Baby's Breath)

Dainty clusters of tiny star-shaped flowers, gracefully borne on slender stems. Wonderful to use in filling out bouquets of other flowers. Particularly pretty to use in a vase with Sweet Peas. Will bloom in six weeks, and to insure a continuous supply, a liberal sowing should be made through April, May and June at intervals of three weeks.

- Elegans Grandiflora Alba. Pure white. Pkt., 10c; oz., 30c.
- Elegans Grandiflora Rosa. Delicate pink. Pkt., 15c; oz., 50c.

HARDY BABY'S BREATH. See pages 51, 54.

## Hibiscus (Hardy Mallow)

This is really a hardy perennial but will bloom the first year from seed if started in the frame in March or April. Flowers are 6 to 7 inches across and trumpet-shaped and come in shades of red, pink, purple and white. All colors mixed. Pkt., 10c.

HARDY HIBISCUS. See pages 51 and 55.

## Helianthus (Sunflower)

An attractive flower with many interesting forms, growing to a height of 3 to 7 feet. Used for cutting and screening unsightly places. Sow where it is to bloom.

- MAROON PRINCE (Novelty 1930). A new and superior dwarf Sunflower. Beautiful maroon shade. Pkt., 15c; ¼ oz., 50c.
- New Miniature Mixed. The most desirable and satisfactory varieties of dwarf sunflowers obtainable. Splendid for cutting and bedding. Pkt., 10c; ¼ oz., 25c; oz., 75c.
- Red Hybrids. Various shades of red. Abundant bloomers. 4 to 6 feet high. Pkt., 10c; ¼ oz., 25c; oz., 75c.
- Chrysanthemum-Flowered. Large, fringed yellow, ball-shaped flowers on stiff stems. 7 feet tall. Pkt., 10c; oz., 75c.
- Mammoth Russian. Common Sunflower grown mostly for its seeds, which are fed to poultry and parrots. Pkt., 5c; ¼ lb., 10c.

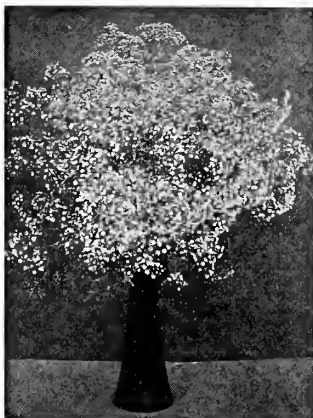
## Heliotrope

Our strain is of the true, dwarf, sweet scented variety, raised by a European specialist. Good for bedding and is an excellent subject for pot culture. Start this seeds in hotbed or cold frame in March or April. Height 12 to 18 inches.

Palmer's Dwarf Giant-Flowered Mixed. Pkt., 15c.

## Hollyhocks

Annual Everblooming. If started in frame, may be had in bloom in July and will continue until frost. Plants of branching habit. Height 5 to 7 feet. All colors mixed. Pkt., 10c; oz., 75c.



Gypsophila.

JAPANESE HOP VINE. See Humulus.

JOHNNY JUMP UP. See Viola Cornuta, page 52.

JOSEPH'S COAT. See Amaranthus.

KENILWORTH IVY. See Linaria.

## Kochia

(Burning or Mexican Fire Bush; Summer Cypress)

This beautiful easily grown annual forms a cypress-like, symmetrical bush of a lively green color. By midsummer it attains a height of 3 feet and in the Fall the whole plant turns to deep russet crimson. A splendid plant to form a low hedge or for a border. Sow this seed where it is to grow and thin out. Pkt., 10c; oz., 30c.

## Kudzu Vine

(Pueraria Thunbergiana)

A large-leaved, rapid growing, hardy climber bearing rosy purple, pea-shaped flowers in August. Though a perennial, this vine may be treated like an annual if sown early. Will attain a height of over 25 feet after the first season. Pkt., 10c.

## Lantana

Our strain is the true dwarf variety bearing large verberna-like heads of flowers. Very desirable for bedding and window boxes. Start this seed early in the cold frame for best results. Colors include red, orange, cream, salmon, pink and gold.

Palmer's Brilliant Hybrids Mixed. Pkt., 10c.

## Helichrysum (Strawflower)

The most popular of all everlasting, they are used extensively for cutting and for Winter bouquets when dried. To preserve them, cut the flowers before they are full in bloom and hang them with heads downward in a dry place. Make first sowings in a hotbed in March and a second outdoors in May. Height 2 feet.

- Fireball. Bright red. Pkt., 10c.
- Golden Ball. Golden yellow. Pkt., 10c.
- Snowball. Pure white. Pkt., 10c.
- Rose Queen. Bright rose. Pkt., 10c.
- Salmon Queen. Rosy salmon. Pkt., 10c.
- Violet Queen. Rich violet. Pkt., 10c.
- Double Mixed. All colors. Pkt., 10c; oz., 80c.

### COLLECTION

1 packet each of above 6 varieties for 50c.

## Honesty

(Lunaria Biennis; Pope's Money; Silver Dollar) Really a biennial but can be treated as an annual. Start the seeds in a hotbed in March and plants will bloom the first year. Chiefly grown for its shiny, silvery seed pods which make an attractive Winter decoration. Height 2 feet. Pkt., 15c.

Crimson

Purple

White

### COLLECTION

1 packet each of above 3 varieties for 35c.

## Humulus Japonicus

(Japanese Hop Vine)

An attractive rapid growing annual climber; attains 20 to 30 feet in a season. Foliage beautifully variegated, free from insects. Pkt., 10c.

## Hunnemannia (Giant Yellow Tulip Poppy)

This glorious golden yellow Poppy is the only one that, when cut, will last in water. Plant forms a large bush and is literally covered with large Poppy flowers all Summer long. Foliage is feathery. Soak the seed in water 24 hours before sowing, as it germinates very slowly, and sow outdoors in May. Hunnemannia may also be forced to bloom during Winter in the greenhouse and as a cut flower has been in great demand on the New York flower market of recent years. It lasts in water for two weeks. Height 2 feet. Pkt., 10c.

HYACINTH BEAN. See Dolichos Lablab.

## Ice Plant (Mesembryanthemum Crystallinum)

A beautiful trailing plant for hanging baskets and the rock garden. Crystal white flowers. Start seeds in cold frames in April. Pkt., 10c.

INDIAN SHOT. See Cannia. Seeds page 36; Roots page 61.

IPOMOEA. See Morning Glory and Moon Vine.

## Impatiens (East African Balsam)

A good bedding plant for semi-shady places, blooming all Summer long. Start seeds in March in hotbed for best results. It also makes an excellent pot plant for Winter bloom. Height 18 inches.

Sultani. American Beauty rose color. Pkt., 25c.



Kochia—Summer Cypress.



## Larkspur

(Annual Delphinium)

This is one of the finest of all cut flowers. They bloom quickly from seed and are exceedingly graceful and attractive in the garden in beds or as cut flowers in vases. Larkspurs have been greatly improved upon in recent years and the strain we offer is the best development to date. The plants are of well branched habit and continue to bloom all Summer. Spikes may be cut 2 to 3 feet in length and the blossoms are set closely and thickly up the stem. For early bloom sow the seed in the hotbed or cold frame in March or April and for later flowers sow seed outside in May and transplant for best results. Plants should be set 12 inches apart.

### DOUBLE STOCK-FLOWERED

	Pkt.		Pkt.
Lilac Blue .....	10c	Rose-Pink .....	10c
Azure Blue .....	10c	Carmine-Rose .....	10c
Dark Blue .....	10c	Scarlet .....	10c
Flesh Pink .....	10c	White .....	10c
Mixed, ½ oz., 50c			10c

### COLLECTION

1 packet each of the above 8 varieties for 65c.

**LARKSPUR AJACIS** (Dwarf Rocket Larkspur). Blooms earlier than the above and is of low, compact growth. Mixed colors, pkt., 10c; ½ oz., 50c.

**HYACINTH-FLOWERED LARKSPUR.** A new type growing to a height of 5 feet, with large, hyacinth-shaped, double flowers thickly studded up the stem. Mixed. Pkt., 20c; ½ oz., \$1.00.

**HARDY LARKSPUR or DELPHINIUM.** See pages 48, 51 and 54.

**LA FRANCE.** See Novelties, page 4. Pkt., 25c; 5 pkts., \$1.00.

**WHITE SPIRE.** See Novelties, page 4. Pkt., 25c; 5 pkts., \$1.00.

## Lavatera Rosea Splendens

(Annual Mallow)

Very showy garden flowers of a rich shrimp-pink color, on long stems for cutting. Flowers mallow-like, and foliage green and glossy. Height 2 feet. Pkt., 15c.

**LEMON VERBENA.** See under Verbena.

## Leptosiphon, French Hybrids

A charming annual for borders. Plants give a mass of small, trumpet-shaped flowers ranging from yellow to rose, ivory to chrome, often tinged pink. Very good for the rock garden. Sow seed where it is to grow, in May. Pkt., 10c.

## Leptosyne Maritima

Large, golden yellow flowers on long stems with fernlike foliage. Good for cutting and forcing. Pkt., 15c.



Marigolds.

## Linaria Cymbalaria

(Kenilworth Ivy)

A pretty perennial of trailing habit that can be treated as an annual. Sow the seed in hotbed in March. Flowers are bright lilac with a yellow throat. Very good for rock garden. Pkt., 10c.

## Lobelia

A beautiful dwarf flowering plant used extensively for hanging baskets, window boxes and edgings of beds and borders. Forms low, compact bushes that are covered all Summer long with little blue, star-shaped flowers. Start seed in hotbed in March or outdoors in May.

**Crystal Palace Compacta.** Forms neat little, ball-shaped bushes covered with dark blue flowers and dark foliage. Fine for carpet bedding or edging. Height 4 inches. Pkt., 15c; ¼ oz., \$1.00.

**Blue Emperor.** Sky-blue with light foliage. Height 4 inches. Pkt., 10c.

**Compacta Mixed.** All dwarf varieties in mixture. Height 4 to 6 inches. Pkt., 10c.

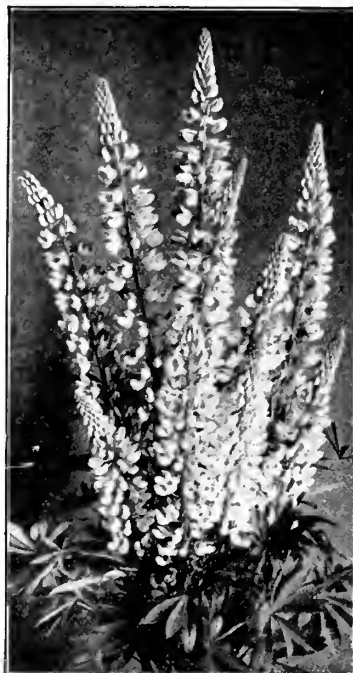
**Sapphire.** Trailing. Rich purplish blue with white eye. Good for hanging baskets. Pkt., 10c.

**Miranda Trailing.** Rosy purple with white eye. Pkt., 15c.

**HARDY LOBELIA.** See page 51.

**LOVE-LIES-BLEEDING.** See Amaranthus.

**LOVE-IN-A-MIST.** See *Nigella*.



Lupinus

## Linum

(Scarlet Flax)

Very showy annuals of long duration, having fine foliage and brilliant scarlet-crimson, cup-shaped flowers. Seed can be started in frames in March or sown outside in May. Height 12 inches. *Grandiflorum Rubrum.* Pkt., 10c; ½ oz., 30c.

**HARDY LINUM.** See pages 51 and 55.

## Lupinus

(Lupine)

Very easily grown annuals with long, graceful spikes of small, pea-shaped flowers. They make a gorgeous display as a cut flower or in the border. Sow seed in May where you want them to grow. Will do well in semi-shade. Height 2 feet.

*Blue.* Pkt., 15c.

*White.* Pkt., 15c.

*Sulphur Yellow.* Pkt., 15c.

*Rose Pink.* Pkt., 15c.

*Mixed, all colors.* Pkt., 10c; oz., 40c.

### COLLECTION

1 packet each of above 4 varieties for 50c.



Larkspur.

**HARDY LUPINES.** See pages 51 and 55.

**ANNUAL MALLOW.** See *Lavatera*.

**HARDY MALLOW.** See *Hibiscus*, pages 51 and 55.

## Marigold

No garden is complete without these favorite annuals. They are at their best when many other plants are past their prime, and live up the whole garden with their brilliant ball-shaped orange and yellow flowers that can be cut on long stems. The French or dwarf varieties are valuable for edging and borders, and start to bloom earlier than the Tall or African sorts. Sow the seed where it is to grow outside in May, and for early flowers start in the cold frame in April.

**AFRICAN or TALL MARIGOLDS.** 2-3 feet in height.

*Orange Prince.* Enormous flowers of perfect shape; golden orange color. Pkt., 10c; ¼ oz., 30c; oz., \$1.00.

*Lemon Queen.* Clear, soft lemon yellow. Pkt., 10c; ¼ oz., 30c; oz., \$1.00.

*Pride of the Garden.* A desirable variety bearing huge golden orange flowers. A highly meritorious feature is the compact, dwarf habit of the plants, which form dense bushes only 15 to 18 inches tall. Pkt., 10c; oz., 75c.

*African Double Mixed.* A superb mixture of the above varieties. Pkt., 10c; ¼ oz., 25c; oz., 75c.

**FRENCH OR DWARF MARIGOLDS.** 1 foot.

*Legion of Honor (Little Brownie).* A single Marigold of bushy habit with golden yellow flowers and a velvety crimson spot at the top of each petal. Fine for borders, growing to a height of 9 inches. Pkt., 10c; 1 oz., 50c.

*Double Gold Striped.* Brownish red, beautifully striped with gold. Pkt., 10c; oz., 50c.

*Golden Ring (Tagetes signata pumila).* A very delightful little Marigold forming a compact, round bush with fern-like foliage and an abundance of dainty single golden orange flowers. Height 9 inches. Pkt., 15c.

*French Dwarf Double Mixed.* A fine assortment saved from prize flowers. Pkt., 10c; oz., 50c.

### SPLENDID MARIGOLD COLLECTION

1 packet each of the 6 varieties (3 African, 3 French) for 50c.

**POT MARIGOLD**—See *Calendula*.

## Matricaria

(Feverfew)

Really a half-hardy perennial, they will bloom the first year from seed, which should be sown in the hotbed or in cold frame in March or April. They have fern-like foliage and heads of small double, button-like flowers on long stems for cutting.

*Snowball.* Double white. Height 2 feet. Pkt., 10c.

*Golden Ball.* Double golden yellow. Height 1 foot. Pkt., 15c.

### Matthiola Bicornis

(Night Scented Stock)

Delicate lilac stock-like flowers emitting in the evening a delightful perfume. Height 1 foot. Pkt., 15c.

**MARVEL OF PERU.** See Four-o'Clocks.  
**MESEMBRYANTHEMUM.** See Ice Plant.  
**MEXICAN FIRE BUSH.** See Kochia.

### Mimosa Pudica

(Sensitive Plant)

A very curious foliage plant with aca-  
cla-like foliage, bearing fuzzy pink flow-  
ers which close up when touched. Pkt.,  
10c.

### Mignonette

(Reseda)

One of our grandmothers' favorites  
that still deserves a place in every gar-  
den. The varieties we offer are greatly  
improved, bearing long spikes closely  
studded with sweet-scented florets. Mig-  
nonette grows best in a rich, moist soil,  
in a position where it gets the early  
morning sun only, i. e., give it an eastern exposure.  
This plant does not like to be transplanted, so  
should be sown where it is to grow and thinned  
out. Height 12 to 18 inches.

**Defiance.** Large, fragrant spikes, 12 to 15 inches  
long and an excellent keeper. Pkt., 10c; oz., 60c.  
**Golden Machet.** A decided improvement on the  
old Machet variety. Very fragrant and a free  
bloomer. Pkt., 15c; oz., 75c.

**Red Gollath.** Red spikes, fragrant and very bril-  
liant colorings. Pkt., 15c; oz., \$1.00.

**Old Fashioned Sweet Scented.** Not as tall as the  
above varieties, but still in great demand for its  
wonderful fragrance. Pkt., 10c; oz., 25c.

### Mimulus

Half hardy perennial that will bloom the first  
year from seed if started in the frame in March.  
Very showy plants, blooming profusely. Ideal for  
the greenhouse or outside in moist, shady posi-  
tions. Height 1 foot.

**Tigrinum (Monkey Flower).**  
Mixed spotted varieties.  
Pkt., 10c.

**Moschatus (Musk Plant).**  
Musk scented foliage with  
small, yellow flowers.  
Pkt., 10c.

**MONKEY FLOWER.** See Mimulus.

### Morning Glories (Ipomoea)

Popular rapid-growing climbers used for growing on  
trellises, arbors, walls and to cover unsightly places. Trum-  
pet-shaped flowers carried in great profusion in a large  
array of colors. Soak seed in water before sowing to aid  
germination, and plant seeds where they are to grow.

**Imperial Japanese.** The largest and most vigorous of all  
Morning Glories. Flowers measure from 3 to 4 inches  
across and come in the most wonderful colors. Some are  
plain edged and others beautifully ruffled and frilled.  
Mixed. Pkt., 10c; oz., 25c; ¼ lb., 75c.

**Old Fashioned Mixed (Convolvulus).** Flowers smaller than  
the Japanese, but a very free bloomer. Pkt., 5c; oz., 15c.

**Brazilian (Setosa).** Very vigorous grower with huge  
leaves 6 to 8 inches across, overlapping each other.  
Large, rose-pink flowers in clusters. Pkt., 15c.

### Moonflower (Ipomoea noctiflora)

Rapid climbers, reaching to a height of 20 to 30 feet in a season.  
Their luxuriant foliage affords dense shade. For best results start  
indoors in March or April, soaking seeds in warm water for several  
hours to hasten germination. The flowers open at sunset or on dull  
days and close in the morning. The flowers open at sunset or on dull  
days and close in the morning.

**Giant White.** Huge white trumpet-shaped flowers measuring as  
much as 6 to 8 inches across. Slightly fragrant. Pkt., 10c; oz., 40c.  
**Heavenly Blue.** Large sky blue flowers, which are very effective  
against their green background of leaves. Pkt., 10c.

**MOURNING BRIDE.** See Scabiosa.

**MOSS AND MOSS ROSE.** See Portulaca.

**MUSK PLANT.** See Mimulus.

### Myosotis (Forget-Me-Not)

The following varieties are really biennials, but are best treated as  
annuals in our climate. Seed should be sown in hotbed or cold frame  
in early Spring and they will bloom in July. For earlier bloom sow  
the seed in August and Winter over in a cold frame, as you do with  
pansies. Prefer a cool, half shady place. Height 12 inches.

**Alpestris.** Royal or Indigo blue. Pkt., 10c.

**Alpestris, Victoria.** Clear azure-blue. Pkt., 10c; ¼ oz., 50c.

**Alpestris alba.** Pure white. Pkt., 15c.

**Alpestris rosea.** Delicate pink. Pkt., 25c.

**Finest Mixed.** Pkt., 10c; ¼ oz., 40c.

**COLLECTION—1 packet each of the above 4 varieties for 50c.**

For hardy perennial varieties, see pages 52, 53, and 55.  
**MOMORDICA.** See Balsam Apple and Balsam Pear.

## Nasturtiums

Everybody can grow these delightful flowers. They  
will grow in any soil and withstand any amount of heat  
and drought. The Dwarf varieties are suitable for  
edgings, borders and window boxes, and the Tall or  
Climbing varieties for use on trellises, verandas, etc.,  
or trailing over rocks. Plant the seed where it is to  
grow any time in May or June. The best way to sow  
is to drop 3 seeds at a spot at intervals of 6 or 8 inches.

**PALMER'S DWARF NASTURTIUMS—**

**Chameleon.** Many varied colors on each plant. Pkt.,  
10c.

**Crystal Palace Gem.** Dark red flowers with yellow  
blotches. Pkt., 10c.

**Golden King.** Rich golden yellow. Pkt., 10c.

**King of Tom Thumbs.** Scarlet. Pkt., 10c.

**King Theodore.** Crimson flowers, dark foliage. Pkt., 10c.

**Pearl or Moonlight.** White flowers. Pkt., 10c.

**Palmer's Brilliant Dwarf Mixture** contains all the  
choicest varieties in a long range of colors. Per pkt.,  
5c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

#### COLLECTION

One packet each of the above 6 varieties for 50c.

**PALMER'S TALL or CLIMBING NASTURTIUMS—**

**Chameleon.** Combination red and yellow shades.  
Pkt., 10c.

**Golden Leaved.** Scarlet. Pkt., 10c.

**Jupiter.** Golden yellow, large flowers. Pkt., 10c.

**King Theodore.** Crimson. Pkt., 10c.

**Pearl or Moonlight.** White flowers. Pkt., 10c.

**Vesuvius.** Salmon. Pkt., 10c.

**Palmer's Brilliant Tall Mixture.** A rich mixture of  
prize varieties in all colors. Pkt., 5c; oz., 15c; ¼ lb.,  
45c; 1 lb., \$1.50.

#### COLLECTION

One packet each of above 6 varieties for 50c.

**LOBB'S CLIMBING NASTURTIUM.** The foliage and  
flowers of this rapid climbing type are somewhat  
smaller than the Tall Nasturtiums, but the colors  
are more brilliant and the blooms more abundant.  
Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$2.00.

## Nicotiana

(Flowering Tobacco)

Long, tube-shaped flowers emitting a delightful fra-  
grance in the evening. Sow seed where it is to grow  
in May. Height 3 feet.

**Affinis.** Pure white, fragrant flowers. Pkt., 10c.

**Sanderac.** Brilliant carmine-red flowers. Pkt., 10c.

**Affinis Hybrids.** Mixed colors containing pink, red  
and white shades. Pkt., 10c.

## Nemesia

A very delightful annual for a cool spot in your gar-  
den. Flowers are orchid-like and come in a large  
range of exquisite color combinations, including rose  
yellow, blue, orange, etc.

**Sutton's English Hybrids.** Mixed. Pkt., 25c.

**PAINTED TONGUE.** See Salpiglossis.

## Nemophila Insignis (Baby's Eyes)

Just the flower you want for a blue border or edging. This de-  
lightful little annual grows only 6 inches tall in small, compact  
bushes literally covered with small, cup-shaped, sky-blue flowers.  
Blooms all Summer long and does well in almost any soil. Sow the  
seed where it is to grow as you would Sweet Alyssum. Height 6  
inches. Pkt., 10c; oz., 50c.

## Nigella (Love-in-a-Mist)

**Miss Jekyll.** Lovely cutting flowers of true cornflower blue, sur-  
rounded by slender, mistlike foliage. Sow the seed outdoors in  
May. Delightful planted together with Shirley Poppies. Height 12  
to 15 inches. Pkt., 10c; oz., 75c.

## Oenothera (Evening Primrose)

A very pretty plant for the border. Produces large, poppy-like  
flowers which open on cloudy days and in the evenings. Colors in-  
clude white, yellow and pink. Mixed. Pkt., 10c.

**HARDY VARIETIES.** See pages 48 and 52.

## Passiflora Coerulea (Passion Vine)

Tender perennial vine that will bloom the first year from seed if  
started in hotbed in March. Curious large blue flowers and hand-  
some three-fingered foliage. Pkt., 10c.

**PERIWINKLE—See Vinca.**

## Palmer's Superb Pansies

For early Spring bloom, sow the seed in August and winter them over in a cold frame. For Summer bloom, sow in a cold frame in March or April and plant out in a semi-shaded, cool location and they will bloom in June and continue until frost. Pansies like a well moistened soil enriched with a slight amount of barnyard manure or bone meal.

### PANSIES IN MIXTURE

**Steele's Mastodon Miracle Mixed.** (Original strain from raiser). The best American strain of Giant Pansies ever introduced; used extensively by florists for cut flowers, and well known for its huge flowers carried on long stems, in a marvelous array of colors. Pkt., 35c; ¼ oz., \$2.00.  
**Mettes' Triumph of the Giants.** A superb European strain. Remarkable on account of the perfect symmetry of its flowers and the sturdy growth of the plants. Contains many colors formerly unknown to Pansy lovers, such as salmon-pink, apricot, wine-red, etc. Pkt., 25c; ¼ oz., \$1.25.  
**English Show Varieties Mixed.** Includes all the recent developments of a well known English specialist. Pkt., 25c; ¼ oz., \$1.00.  
**Masterpiece (Fringed Pansy).** Beautifully curled and waved Pansies in a wide range of exquisite colors. Pkt., 15c; ¼ oz., \$1.00.

### PALMER'S TWENTIETH CENTURY MIXTURE

The finest mixture of Pansies on the market today. Contains all of the above wonderful strains and others, including Cassier's, Bugnot's and Perret's. In it are included every known shade and color marking, only the largest and most perfectly formed flowers. Many ruffled at the edges, carried on long, sturdy stems. Pkt., 35c; ¼ oz., \$1.75; ¼ oz., \$3.25; oz., \$12.00.

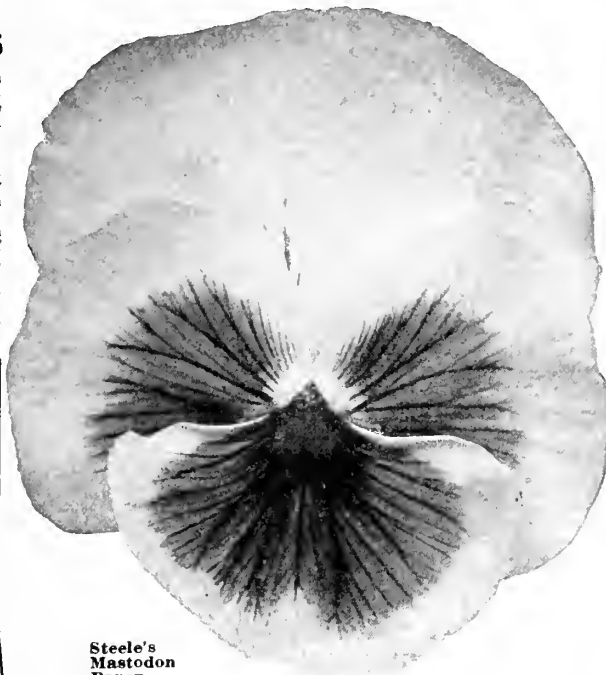
**Cardinal.** Rich red. Pkt., 10c.  
**Adonis.** Lavender blue. Pkt., 10c.  
**Golden Queen.** Rich yellow. Pkt., 10c.  
**Royal Blue.** Rich blue. Pkt., 10c.  
**Lord Beaconsfield.** Deep violet, shading to white. Pkt., 10c.  
**Snow Queen.** Pure white. Pkt., 10c.  
**Palmer's Fine Mixed.** All colors. Pkt., 10c; ¼ oz., 60c.

### COLLECTION

One packet each of the above 6 separate colors for 50c.

### Tufted Pansies (Viola Cornuta; Johnny Jump Up)

Hardy perennials that will bloom the first year from seed if started in a cold frame in March or April. They bloom all Summer long—do well in shady or sunny position and are like little miniature Pansies.



Steele's  
Mastodon  
Pansy.

	Pkt.		Pkt.
<b>Golden Gem.</b> Golden yellow	25c	<b>White Perfection.</b> White	10c
<b>G. Wermig.</b> (New). Violet-blue	25c	<b>Ardwell Gem.</b> Primrose	10c
<b>Mauve Queen.</b> Delicate mauve	10c	<b>Black Prince.</b> Very dark	10c
<b>Jersey Gem.</b> (New). Deep blue	50c	<b>Mixed.</b>	¼ oz., 75c; 10c

**COLLECTION—1 packet each of the above 7 varieties for \$1.00.**

## Palmer's Magnificent Petunias

Petunias are among the most pleasing of all annuals. They are easily raised from seed and bloom continuously throughout the Summer until destroyed by frost. They are equally effective as borders, edges of beds, or for mass planting and for pots and window boxes. They demand only a good soil and a sunny position. Sow the seeds in the hotbed or cold frame in March or April, for early bloom, covering the seeds but lightly, as they are very fine. The single bedding sorts can be sown outdoors in May, right where they are to grow, and should be thinned out for best results.

### Palmer's Large-Flowered Petunias

**California Giants.** This magnificent strain contains all the richest colors and color markings known to Petunias. The huge flowers, measuring 4 to 5 inches across, have deep veined throats with the edges exquisitely ruffled and fringed. Pkt., 25c; 5 pkts., \$1.00.

**Giant Flowering Dwarf Fringed.** A dwarf, sturdy growing type especially suited for pot or window box culture. Flowers are beautifully fringed and ruffled, with open, well marked throats. Mixture contains a wide assortment of the most desirable colorings. Height 8 to 10 inches. Pkt., 35c; 3 for \$1.00.

**Ruffled Giants.** A wonderful Giant strain with handsomely fringed and fluted edges. Flowers are exquisitely blotched and marbled and colors are mostly the desirable reds, purples and dark shades, richly marked and veined. Pkt., 25c.



Giant Single Fringed Petunias.

### Palmer's Giant Double Petunias

In growing Double Petunias from seed, the weaker seedlings should be saved, as these usually produce the finest double flowers. **Giant Double Mixed.** Our strain contains a very high percentage of tremendous double flowers in a wide range of gorgeous colorings. Pkt., 25c.

**Giant Double Fringed Mixed.** A glorious mixture of colossal double flowers with the edges of the petals beautifully fringed. All the richest color combinations are included in this special assortment, which is raised by an eminent European specialist. Pkt., 35c; 3 for \$1.00.

### Balcony Petunias

A very desirable type for use in window or porch boxes and for bedding. The plants, of slightly trailing habit, are covered the whole Summer with a profusion of flowers, measuring 3 inches across.

	Pkt.		Pkt.		Pkt.
<b>Balcony Blue</b>	15c	<b>Balcony Crimson</b>	15c	<b>Balcony Mixed.</b>	
<b>Balcony White</b>	15c	<b>Balcony Rose-pink</b>	15c		¼ oz., \$1.00 15c

**COLLECTION—One packet each of the above 4 varieties for 50c.**

### Dwarf Bedding Petunias

The following are the most desirable varieties for bedding, borders, edges and mass plantings. They are of low, compact growth and are literally a mass of bloom all Summer long.

**Pink Glory.** (New). A decided improvement on Rosy Morn and Rose of Heaven. Carries an abundance of clear, flaming rose-pink flowers of large size on plants 12 inches high. Pkt., 30c; 5 pkts., \$1.25; 1 1/4 oz., \$3.00.

**Rosy Morn.** An old favorite. Soft rose-pink with white throat. Pkt., 10c; ¼ oz., \$1.00.

**Rose of Heaven.** Brilliant rich rose. Pkt., 10c; ¼ oz., 75c.

**Howard's Star.** Rich crimson with white-starred center. Pkt., 10c.

**Snowball.** Pure white. Pkt., 10c.

**Violet Queen.** Rich violet-blue. Pkt., 15c; ¼ oz., \$1.00.

**Striped and Blotched.** Large, beautifully marked flowers. Pkt., 15c.

**Palmer's Splendid Bedding Petunias Mixed.** Pkt., 10c; ¼ oz., 60c; oz., \$1.75.

**COLLECTION—One packet each of above 7 varieties for 75c.**

## Phlox Drummondii

One of the showiest and most satisfactory of annual plants. Flowers of the annual Phlox may now be had as large as those of the hardy varieties and in even more varied and charming colors. For early flowers sow the seed in the hotbed or cold frame in March or April. For Summer bloom, sow outdoors in May and thin out. Phlox like a rich, mellow soil and a sunny position. Height 1 foot. Pkt.  
Daybreak Pink. Soft rose .....10c  
Pure White .....10c  
Chamois Rose. Salmon-pink .....10c  
Brilliant Red .....10c  
Isabellina. Pale yellow .....10c  
Purple .....10c  
Finest Mixed. All colors. ¼ oz., 30c; oz., \$1.00 .....10c

**COLLECTION**  
1 packet each of above 6 varieties for 50c.

**PHLOX DRUMMONDII NANA COMPACTA GRANDIFLORA.** A charming dwarf type very desirable for edging. Plants grow only 6 inches high and form a neat perpetual blooming border. Pkt.  
Salmon-Rose .....20c  
Fireball. Brilliant scarlet .....20c  
Pale Yellow .....20c  
Snowball. Pure white .....20c  
Dwarf Finest Mixed. ¼ oz., 40c .....20c

## Star Phlox

(Phlox Cuspidata)

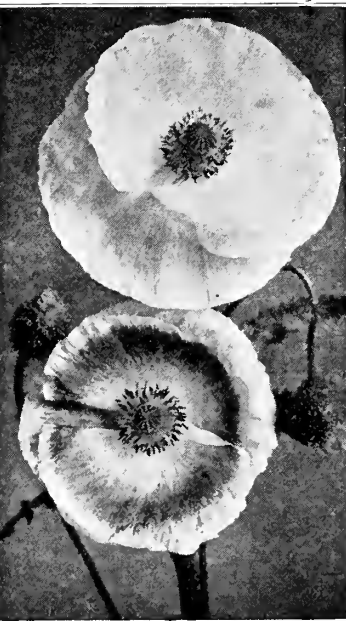
Beautiful star-shaped flowers. All colors mixed. Pkt., 10c; ¼ oz., 35c; oz., \$1.25.

**HARDY PHLOX.** See pages 52 and 55.

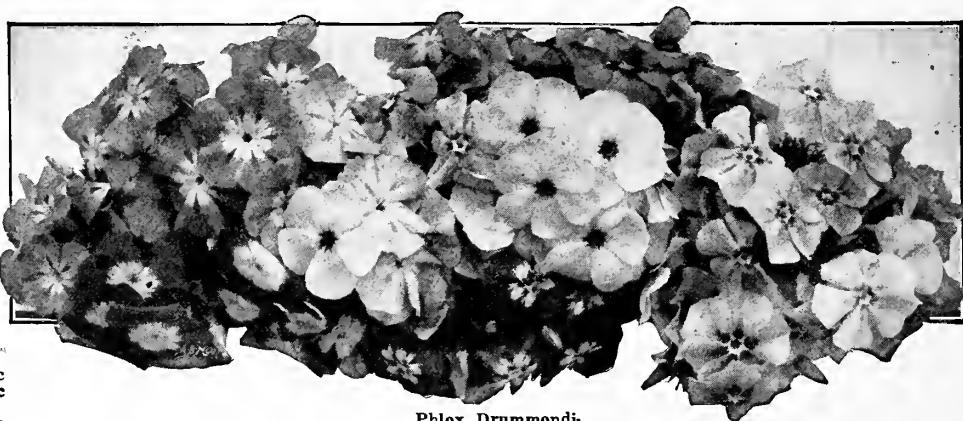
## Phacelia Campanularia

(California Bluebell)

An attractive little annual for your blue garden. Flowers are bell-shaped and of a rich gentian-blue color. Sow seed outside where it is to bloom. Height 12 inches. Pkt., 10c.



Shirley Poppies.



Phlox Drummondii

## Physalis Francheti

(Chinese Lantern Plant)

This useful biennial will bloom the first year if the seed is started early. It forms a compact bush about 2 feet high bearing cherry-like fruit surrounded by an orange husk which, when dried, looks like a Chinese lantern. Very attractive for Winter bouquets. Pkt., 10c.

**PINCUSHION FLOWER.** See Scabiosa.  
**PINKS, CHINESE and JAPANESE.** See Dianthus.

## Annual Poppies

Sow the seed in early May where they are to grow and thin out, as they cannot be transplanted. Palmer's Superb Double Hybrids Mixed. A splendid strain of enormous double, fluffy, fringed flowers, as large as Peonies, in many shades of pink, white, red and salmon—many of them striped. Height 3 feet. Pkt., 25c; ½ oz., 50c.  
**Double Peony-Flowered.** Large, broad petaled, double flowers in many bright colors. Height 2 feet. Pkt., 10c; oz., 40c.

**Double Carnation-Flowered.** A fine strain of large, fringed flowers, resembling a carnation. Height 2 ft. Pkt., 10c; oz., 40c.

**Danebrog or Danish Cross.** Showy, single, scarlet Poppies with a white blotch on each petal forming a cross. Pkt., 10c.

**Tulip-Flowered Scarlet.** Beautiful large, tulip-shaped flowers. A very attractive variety. Pkt., 10c; oz., 80c.

**Annual Poppies Mixed.** This assortment contains all of the above Poppies, both Single and Double, in every color known to these dainty flowers. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; lb., \$3.25.

## Shirley Poppies

Palmer's New Improved. A very select strain of these dainty Poppies. They are delightful planted with cornflowers or broadcast in large patches through the garden.

Pkt.	White	Pkt.
Apricot .....15c	White .....15c	
Rose-Pink .....15c	Blue Shades .....15c	
American Legion, Dazzling scarlet .....15c		

**COLLECTION**  
1 pkt. each of above 5 varieties, 60c.

**Shirley Select Single Mixed.** Pkt., 10c; oz., 40c.  
**Shirley Select Double Mixed.** Pkt., 15c; oz., 75c.  
**CALIFORNIA POPPY.** See Eschscholtzia.  
**YELLOW TULIP POPPY.** See Hunnemannia.  
**HARDY POPPIES.** See pages 48 and 52.  
**EVENING PRIMROSE.** See Oenothera.  
**POOR MAN'S ORCHID.** See Schizanthus.

## Portulaca

(Rose Moss)

A favorite hardy annual that thrives during the hottest weather and in almost any sunny situation. They grow but 4 inches tall, are of creeping habit and form a showy carpet when grown in beds. Flowers measure 1 inch across and come in many shades of red, white, pink, orange, yellow

and crimson. Foliage is thick and fleshy. They are often used as an undergrowth for gladioli and roses; for borders, and edgings, and scattered through the rock garden or sown between stepping stones and paths. Sow the seeds outdoors early in May and just press the seed into the soil and they will bloom throughout the Summer. When broadcasting mix with dry sand to insure an even distribution. Height 4 inches.

**Single Mixed.** Glossy cup-shaped flowers in all colors. Pkt., 10c; oz., 50c.

**Double Mixed.** Roselike, in brilliant colorings. Pkt., 10c; ¼ oz., 60c.

## Pyrethrum (Golden Feather)

A useful border plant with yellow foliage. Fine for edging. Start seed in cold frame in April for best results. Height 8 inches. Pkt., 10c.

**POPE'S MONEY.** See Honesty.

## Rhodanthe Manglesi

A pretty everlasting; pink flowers with yellow center. Can be dried and used in Winter bouquets. Height 12 inches. Pkt., 10c.

## Ricinus

(Castor Oil Bean)

These stately ornamental plants are fine for using in foliage beds where a tropical effect is wanted. They grow rapidly from seed and make a good show very quickly. Sow seeds in a small pot, one seed to a pot, for early plants or for later, outdoors in the ground in May. Height 5 to 8 feet.

**Zanzibariensis.** Very tall, stately plants of picturesque effect. Leaves are large and vary in color from pale green to bronze and purplish red. Height 5 to 8 feet. Pkt., 10c; oz., 15c.

**Borboniense Arboreum.** Very tall variety with large, green leaves. Height 10 to 15 feet. Pkt., 10c; oz., 15c.

**Cambodgensis.** Reddish maroon leaves. Very effective. Pkt., 10c; oz., 15c.

**Gibsoni.** Dark purplish leaves and stems. Pkt., 10c; oz., 15c.

**All Varieties Mixed.** Pkt., 5c; oz., 10c.

**SAGE.** See Salvia.

## Salpiglossis

(Painted Tongue)

Delightfully showy flowers in exquisite colors and color markings. Flowers resemble a petunia in shape, are borne on long stems, and are well suited for cutting. Seed should be started in the hotbed in March or cold frame in April for best results. It may be sown outdoors in May and thinned out. The seed is very fine and should only be pressed into the soil and barely covered at all. Salpiglossis prefers a sheltered location in the garden and a well drained soil, when it will bloom from July to frost. Height 18 inches.

Pkt.	Pkt.
Rose and Gold .....10c	Light Blue and Gold 10c
Chamols .....10c	Yellow and White .10c
Purple and Gold ...10c	Crimson and Gold .10c
Superb Mixture. All colors. ¼ oz., 50c .....10c	

**COLLECTION**  
1 packet each of the above 6 varieties for 50c.



## Salvia

(Scarlet Sage)

Salvias give a very showy display with their sprays of brilliant scarlet flowers rising above the green foliage. They form bushy plants and bloom continuously from midsummer until late frost. They are very desirable for formal beds, as a border for Cannas or planted in clumps through the border. Seed should be started in the hotbed in February or March or in the cold frame in April and the plants set outside in May.

**America (Globe of Fire).** A new dwarf bushy variety, growing only 15 inches high. Forms compact oval shaped bushes that are literally ablaze with flowers all Summer long. Pkt., 15c; ¼ oz., \$1.00.

**Zurich.** A valuable variety of dwarf habit; the earliest of all Salvias to bloom. Height 18 inches. Pkt., 10c.

**Bonfire.** Compact plants covered with large brilliant scarlet flowers on long spikes. Height 2 ft. Pkt., 10c.

**Splendens Grandiflora.** Tall bushy plants with immense scarlet flower trusses. Height 3 ft. Pkt., 10c; ¼ oz., 75c.

**Patens (Blue Sage).** Bushy plants with long spikes of bright blue flowers. Height 2 ft. Pkt., 20c.

**Farinacea.** Really a perennial, this desirable Salvia will bloom the first year from seed if started in the hotbed in February or March. Bushes grow 4 to 5 ft. tall and carry long spikes of pale blue flowers, excellent for cutting. Pkt., 15c; ¼ oz., 75c.

**HARDY SALVIA.** See pages 48, 52 and 55.

## Saponaria Multiflora

(Carpet of Pink)

A delightful low edging plant with pink starry flowers in great profusion. Seed may be started early in the frames or sown outdoors in May. Blooms from May until frost. Height 6 inches. Pkt., 10c.

**SCARLET RUNNER BEAN.** See under Bean.

## Schizanthus

(Butterfly Flower or Poor Man's Orchid)

Free flowering attractive annuals forming neat bushes, literally covered with dainty butterfly-like flowers in a wide range of colors and shadings. Seed should be started in the frame in April for early bloom or sowed outside in May. Height 18 inches. Pkt., 10c.

**SNOW-ON-THE-MOUNTAIN**—See Euphorbia.

**SPIDER PLANT**—See Cleome.

**SENSITIVE PLANT**—See Mimosa.

**SILVER DOLLAR**—See Honesty.

**SNAPDRAGON**—See Antirrhinum.



Stocks—Gilliflower.

## Scabiosa

(Mourning Bride—Pin Cushion or Sweet Scabious Flower)

One of the finest cutting annuals and very showy in the garden. The many colored flowers are carried on long graceful stems and bloom freely all summer. Sow seed in the frame in March or April for early flowers or outdoors early in May. Height 2½ to 3 feet.

**IMPROVED GIANT DOUBLE VARIETIES.**

	Pkt.
Azure Fairy. Clear lavender-blue	.....\$0.10
Black Purple (Mourning Bride)	.....10
Bright Scarlet	.....10
Flesh Color	.....10
Giant Loveliness. See Novelties, page 4.	
Shasta. New improved white variety	.....10
Peach Blossom. A delightful pale pink	.....10
Sulphur Yellow	.....10
Finest Double Mixed. ¼ oz., 25c; ½ oz., 75c	.....10

Collection, 1 Pkt. Each of the Above Varieties for 55c. Novelties Excepted.

**HARDY SCABIOSA.** See pages 52 and 55.

## Silene

(Catchfly)

This effective little annual forms compact round bushes which are covered all summer long with pretty pink, white and red flowers. Desirable for edgings. Sow seed where it is to grow. Height 6 inches. Pkt., 10c.



Scabiosa—Mourning Bride.

## Statice

(Sea Lavender)

These beautiful everlastings are very desirable either in the garden or dried in winter bouquets. A profusion of the attractively colored box-shaped flowers are borne all along the branches, which can be cut with 18 inch stems. Statice succeeds best in a poor, slightly moist soil. Sow the seed in frames in March or April and later again outdoors. Height 18 inches to 2 feet.

<b>Sinuata Rosca.</b> Pale rose-pink. Pkt., 10c.	
<b>Sinuata Blue.</b> Rich blue. Pkt., 10c.	
<b>Bonduelli.</b> Golden yellow. Pkt., 10c.	
<b>Suworowi (Russian Statice).</b> Very different from the sinuata type, this variety forms large feathery flower spikes of a soft rose color. Very good for cutting. Pkt., 15c.	

Collection, 1 Pkt. Each of the 4 Varieties for 40c.

**HARDY STATICE.** See pages 52 and 55.



Salvia America, Globe of Fire.

## Stocks

(Gilliflower)

Delightfully fragrant annuals of long duration of bloom. They come in a good range of exquisite colorings and are excellent for bedding or pot plants. For early bloom sow the seed in the hotbed in February or March, or in the cold frame in April. Stocks grow best in a well enriched soil and a fairly sunny position. **DRESDEN PERPETUAL or IMPROVED CUT-AND-COME-AGAIN STOCKS.** This variety of 10-week stock is very adaptable for cutting. They send up numerous spikes of fragrant large double flowers in continuous succession. Height 18 inches.

	Pkt.
Appleblossom. Soft pink shaded white	.....\$0.10
Brilliant. Blood-red	.....10
Canary Yellow	.....10
Deep Rose	.....10
May Queen. Pale blue	.....10
Princess Alice. Pure white	.....10
Giant Double Mixed. ¼ oz., 50c	.....10

Collection, 1 Pkt. Each of the Above 6 Varieties for 50c.

**GIANT DOUBLE PERFECTION.** Of very strong growth, the plant generally carries one huge main spike surrounded by a number of smaller ones. Flowers are very large and double. Height 18 inches.

	Pkt.
Blood Red	.....\$0.10
Flesh Pink	.....10
Chamois	.....10
Rose-Pink	.....10
Dark Blue	.....10
Light Blue	.....10
Pure White	.....10
Double Perfection Mixed. ¼ oz., 50c	.....10

Collection, 1 Pkt. Each of the Above 7 Varieties for 55c.

**STRAWFLOWERS.** See Acroclinium, Ammobium, Gomphrena, Everlastings, Helichrysum, Statice, Physalis, Honesty, Rhodanthus. **SWEET SULTAN.** See Centaurea Imperialis.

## PALMER'S SPECIAL ANNUAL BORDER COLLECTION

1 pkt, each, 24 of the best for \$1.75. Regular value, \$2.40.

Sweet Alyssum	Portulaca
Ageratum	Stocks
Snapdragon	Zinnias
Asters	Chrysanthemums
Calendula	Pinks
Cosmos	African Daisy
Carnation	Gaillardia
Cornflower	Helichrysum
Pansy	Larkspur
Petunia	Marigold
Phlox	Nasturtium
Shirley Poppies	Mignonette

# Palmer's Sweet Peas

1 ounce will sow 15 lineal feet.

It is possible to have wonderful success with Sweet Peas in spite of the hot climate of the Middle West, if the proper cultural method is followed. The following program is applicable in this section.

Sow the seed as early as the ground can be worked so that a strong, well-developed root system will be developed before hot weather sets in. A location in full sunlight where the drainage is good and the soil is richest will prove best. Dig a trench 12 to 18 inches deep and cover the bottom with 6 inches of well-rotted manure. Dig the manure well into the bottom of the trench and fill to within 6 inches of the surface with rich, loose soil. With the aid of a line sow the seed in the middle of the trench and cover with 3 inches of soil, using 1 ounce of seed to 15 running feet. As the plants develop fill in the balance of the trench gradually.

Some support, either wire, brushwood or trellis must be provided as soon as the young plants appear.

To have the best success with Sweet Peas, a quick-acting chemical fertilizer should be used just when the flower buds are forming. A table-spoonful of Loma Plant Food dissolved in 2 gallons of water and watered down each side of the row will produce magnificent blooms. Be careful, however, that the solution does not touch either stem or foliage. Do this at intervals of three weeks.

When the plants are nearly their full height, mulch the soil with Granulated Peat Moss to preserve the moisture and keep the soil from baking. This will prolong the blooming period considerably.

## Spencer's Orchid-Flowering Sweet Peas

The following list contains only the best of recent introductions:

	Pkt.	Oz.
CHARITY. Crimson .....	\$0.10	\$0.25
CHARMING. Deep rose .....	.10	.25
CHIEFTAIN. Deep mauve .....	.10	.25
GEORGE SHAWYER. Orange-pink .....	.10	.25
HAWLMARK SALMON-PINK. Rose-pink flushed deep salmon .....	.10	.25
JEAN IRELAND. Cream edged rose .....	.10	.25
KING WHITE. Giant white .....	.10	.25
MATCHLESS. Creamy yellow .....	.10	.25
MISS CALIFORNIA. Salmon-pink .....	.10	.25
MRS. TOM JONES. Deep blue .....	.10	.25
PICTURE. Cream-pink suffused apricot .....	.10	.25
POWERSCOURT. Huge pure lavender .....	.10	.25
RAVENSWING. Dark maroon .....	.10	.25
ROYAL PURPLE. Rich purple .....	.10	.25
ROYAL SCOT. Orange-scarlet .....	.10	.25
YOUTH. White edged soft rose-pink .....	.10	.25

### PALMER'S SPECIAL SPENCER SWEET PEA COLLECTION

1 pkt. each of the above 16 glorious varieties for only \$1.10.

### PALMER'S PRIZE COLLECTION

1 pkt. each of 10 of the above varieties, our selection, in special lithographed packet, for only 75c.

### PALMER'S SUPERB SPECIAL SPENCER OR ORCHID FLOWERING SWEET PEAS IN MIXTURE

Our special mixture contains every color and shade known to Sweet Peas. In it are included not only the varieties contained in our list but also numerous other superb varieties and new hybrids, all of them large-flowered and beautifully waved. It is the finest, best balanced and most up to date mixture of Spencer Sweet Peas procurable. Pkt., 10c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

## Early Flowering Spencer Sweet Peas (Winter Blooming)

If sown in August and September in the greenhouse, they will bloom from November and through the Winter months. If sown outdoors in Spring, they will bloom easily 3 weeks earlier than the other Sweet Peas. Pkt., 15c; 50c per oz. (except where noted).

AVIATOR. Large crimson.	MEADOW LARK. Large, early, cream.
BLUE BIRD. Delightful blue.	MRS. CALVIN COOLIDGE. Salmon-cerise-pink.
BURPEE'S ORANGE. Deep orange.	SNOWSTORM IMPROVED. Clear white.
CHEVALIER. Clear rose-pink.	SILVER BLUE. Lavender-blue.
HARMONY. Clear lavender.	SVOLANEK'S ROSE. Bright rose-pink.

COLLECTION, 1 PKT. EACH OF THE ABOVE 10 VARIETIES FOR \$1.00.

HARDY SWEET PEAS. See Lathyrus, pages 51 and 55.  
SUMMER CYPRESS. See Kochia.  
TOBACCO (Flowering). See Nicotiana.

TASSEL FLOWER. See Caciaia.  
SUNFLOWER. See Helianthus.  
SULTANA. See Impatiens.  
TAGETES. See Marigold, Golden Ring.

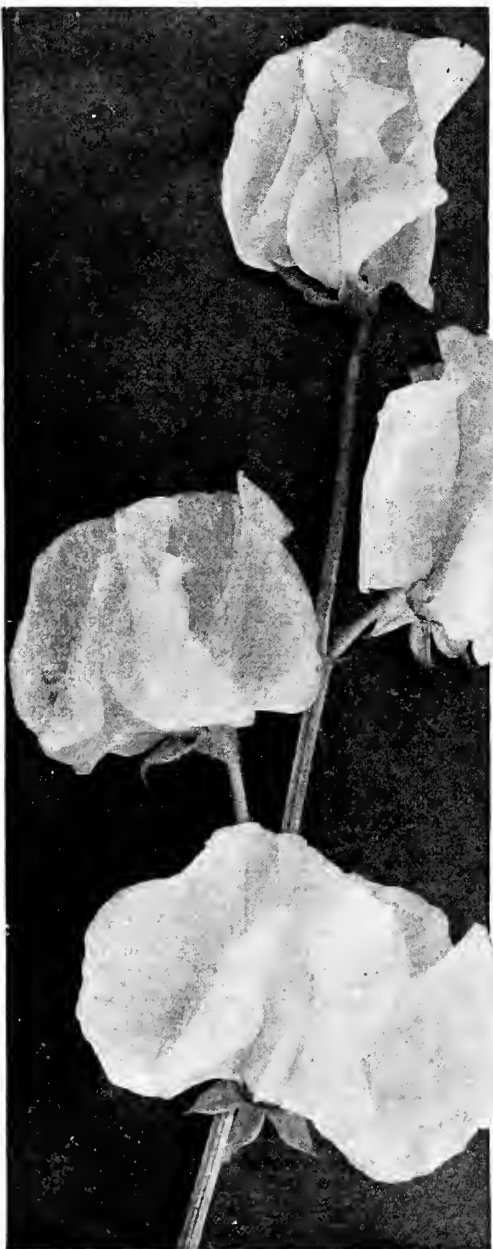
## Torenia

Delightful tubular, orchid-shaped flowers borne in great profusion on low compact little bushes. They succeed best in a moist, shady location, and are very desirable for edge and border work. Also excellent for pots and window boxes. Start the seed in the frames in March or April. Height 10 inches.  
Fournieri. Sky-blue with violet-blue blotches and golden yellow throat. Pkt., 15c.  
Bailloni. Golden yellow purple throat. Pkt., 20c.

## Vinca (Periwinkle)

Pretty annuals of compact growth with glossy green leaves and dainty five-petaled star-shaped flowers. Ideal for edgings, borders and window boxes. They will grow under almost any soil conditions. Seed should be sown in hotbed in February or March, or cold frame in April. Height 15 inches.

Rosea. Rose-pink. Dark eye .....	Pkt.	\$0.10
Rosea alba. White, crimson eye .....	lb.	.10
Rosea alba pura. Pure white .....	lb.	.10
Rosea Mixed. All colors in mixture .....	½ oz., 75c.	.10



## Thunbergia

(Black-Eyed Susan)

A beautiful graceful trailing plant of rapid growth. It is greatly used for hanging baskets, porch boxes and trellises. Small orange, yellow, buff and white flowers with dark centers. Pkt., 10c.



Palmer's Mammoth Verbenas.

## Mammoth Verbenas

We offer the best strain of Mammoth Verbenas obtainable, some of the individual blooms measuring over 1 inch across. They grow low and spread, covering the ground with a dense carpet of green foliage making a charming background for the brilliantly colored flowers. Sow the seed in the hotbed in March or April and a later sowing can be made outdoors in May.

	Pkt.		Pkt.
Mammoth Blue ...	\$0.10	Mammoth White ..	\$0.10
Mammoth Pink ...	.10	Mammoth Purple ..	.10
Mammoth Scarlet ..	.10		
Palmer's Mammoth Mixed. Contains all the above in splendid mixture. Pkt., 10c; ¼ oz., 40c; 1 oz., \$1.25.			

## Lemon Verbena

(Aloysia Citriodora)

An old favorite with delightfully fragrant foliage. Start the seed indoors in March. Pkt., 10c. SAND VERBENA. See Abronia.

## Wallflower

A popular fragrant annual bearing spikes of stocklike flowers in shades of yellow, gold, orange, blood-red and crimson. Excellent for pots, beds, borders and for cutting. Sow seed outdoors in May. Height 12 to 18 inches.

Single Mixed. Pkt., 10c; oz., 40c.  
Double Mixed. Pkt., 10c; oz., 50c.

HARDY WALLFLOWER. See page 52.

## Xeranthemum

A pretty Everlasting about 2 ft. tall in various colors blooming from July until frost. The flowers are dried and used for Winter bouquets. Pkt., 10c. VIOLA CORNUTA. See under Pansies and pages 48, 52 and 55.

WILD CUCUMBER VINE. See Echinocystis.

## Wild Flower Garden

A mixture containing almost every annual in existence that will give a wealth of bloom throughout the season till frost. Excellent for beautifying the unsightly parts of the garden. Pkt., 10c; oz., 25c; lb., \$1.50.

# Gorgeous Zinnias

No garden is complete without some of these glorious flowers. They are easy to grow and give such an abundance of showy, brilliantly colored blooms, desirable either in the border or for cutting, that there is little wonder they are so popular. Of recent years Zinnias have been much improved upon, until now flowers may be had measuring as much as 6 and 7 inches in diameter. We list only the best of these new introductions. For early blooms the seed should be sown in the hotbed in March or the cold frame in April. Seed may also be sown outdoors in May and early June. They succeed best in a sunny position and like rich soil.

## Giant Double Dahlia-Flowered Zinnias

Without question the largest and most magnificent type of Zinnias ever introduced. The petals, instead of overlapping, stand out dahlia-wise and the flowers are double right to the very center. The flowers, measuring 6 to 8 inches across and 4 inches deep, come in a wide range of gorgeous pastel shades almost too beautiful to describe. Dahlia Zinnias are just as easy to grow as any other variety so make sure you have some this year. Height 3 to 4 ft.

	Pkt.		Pkt.
Exquisite (Tyrian Rose). Light rose with deep rose center .....	\$0.15	Orlote. Orange and gold—one of the finest .....	\$0.15
Illumination. Deep rose throughout .....	.15	Old Rose. Real old rose color .....	.15
Crimson Monarch. Rich crimson .....	.15	Dream. Deep lavender turning to purple .....	.15
Golden State. Orange-yellow turning to orange .....	.15	Polar Bear. Pure white .....	.15
Scarlet Flame. Bright scarlet shading to orange at tips of petals .....	.15	Canary Bird. Delicate primrose-yellow .....	.15
		Purple Prince (New). Deep glowing purple .....	.15
		Lemon Beauty (New). One of the largest of this type. Beautiful golden yellow ...	.15

Collection, 1 pkt. Each of Above 12 Colors for \$1.40.

**PALMER'S GOLD MEDAL DOUBLE DAHLIA-FLOWERED MIXTURE.** A well balanced mixture of the above varieties. Pkt., 15c; ¼ oz., 75c; oz., \$2.25.

## Palmer's Giant Double Zinnias

A decided improvement on the old type with large flowers, 4 to 6 inches across, very double, in a bright range of colors. Height 2 to 3 ft. Pkt., 10c.

Bright Rose.	Canary Yellow.	Flesh-Pink.	Purple.	Scarlet.
Burnt Orange.	Crimson.	Salmon-Pink.	White.	Apricot.

Collection, 1 Pkt. Each of Above 10 Colors for \$1.40.

Giant Double Mixed. All colors of the above varieties. Pkt., 10c; ¼ oz., 35c; oz., \$1.25.

## Giant Picotee Zinnias

Pastel shades with the end of each petal distinctly tipped with pink, maroon and other well defined colors. Pkt., 15c.

## Large Flowering Double Dwarf Zinnias

Bushy plants only 18 inches to 2 ft. tall, bearing truly giant blossoms. Excellent for bedding.

Canary Yellow. Pkt., 10c.	Salmon-Rose. Pkt., 10c.
Scarlet. Pkt., 10c.	White. Pkt., 10c.
Dwarf Double Mixed. Pkt., 10c; oz., 50c.	

COLLECTION, 1 PKT. EACH OF THE ABOVE 4 VARIETIES FOR 30 CENTS.

## Mexican Zinnia (Haageana)

Small double orange colored flowers on bushy plants. Fine for borders. Height 18 inches. Pkt., 15c.



Giant Double Dahlia-Flowered Zinnia.

## Lilliput or Pompon Zinnias

The plants are handsome little bushes, literally covered with small, double flowers resembling the Pompon Chrysanthemums. The flowers bloom all Summer until frost and are excellent for cutting. Very desirable for planting along driveways and walks.

	Pkt.		Pkt.
Canary Yellow .....	\$0.15	Salmon Rose .....	\$0.15
Scarlet Gem .....	.15	White Gem .....	.15
Fine Mixed, pkt., 10c; oz., \$1.25.			

COLLECTION, 1 PKT. EACH OF 4 SEPARATE COLORS LISTED ABOVE FOR 50 CENTS.

## Cactus Flowered or Quilled Zinnias

Large double flowers with curled and pointed petals, resembling the cactus dahlia. Our mixture contains all the colors found in Zinnias. Pkt., 15c.

## Hardy Seeds for the Rock Garden

Rock gardening is one of the most fascinating branches of the art today and is becoming more and more popular. There are few gardens where some kind of a rock garden could not be attempted, especially where rocks and stones are plentiful.

We offer here a special list of seeds that will thrive between crevices of stones and in elevated positions. You will enjoy your rock garden all the more if you raise your own plants from seed.

### Special St. Louis Rock Garden Collection

*Aquilegia Alpina*  
*Campanula Rotundifolia*  
*Dianthus Arenarius*  
*Geum Montanum*  
*Helianthemum Amabile*  
*Linum Alpinum*

*Lychnis Alpina*  
*Saxifraga Umbrosa*  
*Sedum Mixed*  
*Silene Acaulis*  
*Tunica Saxifraga*  
*Viola Florariensis*

1 pkt. each of  
these 12 delightful  
rock plants ... **\$2.50**

### General List of Rock Garden Seeds

*ACHILLEA millefolium rubrum*. Pkt., 15c.  
*AGROSTEMMA coronaria atrosanguinea*. Pkt., 10c.  
*ALYSSUM saxatile compactum*. Pkt., 10c.  
*ANEMONE pulsatilla*. Violet-purple. 9 to 12 inches. Pkt., 20c.  
*AQUILEGIA coerulea*. Blue. Pkt., 10c.  
*AQUILEGIA*, Long-Spurred Hybrids. Pkt., 15c.  
*ARABIS alpina* (Rock Cress). White. Pkt., 10c.  
*ASTER Alpinus* (Dwarf). Blue. 1 ft. Pkt., 20c.  
*AUBRIETIA Leichtlini* (Pink Rock Cress). Pkt., 15c.  
*CAMPANULA carpatica*. Blue. Pkt., 10c.  
*CANDYTUFT* (*Iberis*) *gibraltarica*. Lavender-pink. Pkt., 15c.  
*CANDYTUFT* (*Iberis*) *sempervirens*. White. Pkt., 20c.  
*CERASTIUM tomentosum* (Snow-in-Summer). Pkt., 10c.  
*DELPHINIUM chinense*. Blue. 8 inches. Pkt., 10c.  
*DIANTHUS deltoides* (Maiden Pink). Pkt., 20c.  
*EDELWEISS*. 6 inches. Pkt., 15c.  
*GEUM*, Mrs. Bradshaw. 1½ ft. Pkt., 15c.  
*GYPHOPHILA repens* (Trailing Baby's Breath). Pkt., 15c.  
*HEUCHERA sanguinea splendens*. 1½ ft. Pkt., 20c.

*LINUM flavum*. 1 ft. Pkt., 25c.  
*LINUM*, Heavenly Blue. 1 ft. Pkt., 10c.  
*LYCHNIS viscaria splendens*. 1 ft. Pkt., 10c.  
*MYOSOTIS palustris semperflorens*. 10 inches. Pkt., 10c.  
*OENOTHERA missouriensis*. Yellow. 1 ft. Pkt., 25c.  
*PENTSTEMON Torreyi*. Coral-pink. 2½ ft. Pkt., 15c.  
*POLYANTHUS*. Giant-flowering. 6 inches. Pkt., 15c.  
*PRIMULA vulgaris* (English Primrose). 6 to 9 inches. Pkt., 10c.  
*POTENTILLA*. Assorted art shades. 1½ ft. Pkt., 10c.  
*PRIMULA veris* (Cowslip). 10 inches. Pkt., 15c.  
*PRIMULA officinalis hybrida*. Blue and yellow. 10 inches. Pkt., 25c.  
*POPPY*, Iceland. 1 ft. Pkt., 15c.  
*SALVIA pratensis*. Blue. 2 ft. Pkt., 20c.  
*VERONICA spicata* (Blue Speedwell). 1½ ft. Pkt., 15c.  
*VIOLA cornuta*. Mixed. 10 inches. Pkt., 10c.  
*WALLFLOWER*, Siberian. 10 to 15 inches. Pkt., 35c.

COLLECTION, 1 EACH OF 35 VARIETIES,  
\$4.50. REGULAR VALUE, \$5.40.

### Seeds of Greenhouse Plants

*ASPARAGUS Plumosus Nanus* (Asparagus Fern). A graceful foliage plant used extensively for cutting. 100 seeds, 50c; pkt., 25c.  
*A. Sprengeri*. A pretty house plant with drooping foliage for window boxes and baskets. 100 seeds, 40c; pkt., 15c.  
*CALCEOLARIA*, James Superb Exhibition Strain. Beautiful spotted and tigered flowers. The strain we carry is recognized as the finest in the world. Pkt., 50c.  
*CALENDULA* (Pot Marigold). Ball's Improved Orange. Special greenhouse strain. Pkt., 15c.  
*CINERARIA*. Beautiful house or conservatory plants covered with brilliantly colored daisy-like flowers.  
*C. Palmer's Prize Dwarf Hybrids*. Pkt., 50c.  
*C. Palmer's Prize Tall Hybrids*. Pkt., 50c.  
*C. Stellata Grandiflora Mixed* (Star Cineraria). Pkt., 50c.  
*CYCLAMEN Giganteum*. Our strain is grown by a noted European specialist. The flowers are of giant size, delicately waved and brilliantly colored. Pkt., 35c.  
*GERBERA Jamesoni Hybrida* (Transvaal Daisy). Beautiful Daisies in shades of scarlet, crimson, yellow, orange, salmon, rose, cerise, violet; on long, cutting stems. Pkt., 35c.  
*GREVILLEA Robusta* (Silk Oak). Pkt., 15c.  
*GERANIUM*, Zonale Mixed. Sow them in the greenhouse in February and they will bloom in July and August. Pkt., 10c.  
*GLOXINIA Hybrida Gigantea*. Large trumpet-shaped flowers of velvety texture measuring up to 4 inches across. Seed should be sown in March. Pkt., 50c.

*LEPTOSYNE Maritima*. Golden, yellow coreopsis-like flowers with fernlike foliage. Pkt., 15c.  
*PRIMULA*, Giant Chinese Fringed (*Sinensis Fimbriata*). The Chinese Primrose is one of the most beautiful plants for the conservatory during Winter months. The bushy plants carry large trusses of delicately colored fringed flowers. Sow the seed in March or April.  
*P. Giant Single Fringed Mixed*. Pkt., 25c.  
*P. Giant Double Fringed Mixed*. Pkt., 50c.  
*P. Sinensis Stellata* (Giant Star Primrose). Mixed colors. Pkt., 35c.  
*P. Obconica Gigantea* (Giant Flowering Ever-blooming Primrose). Pkt., 25c.  
*P. Malacoides* (Giant Baby Primrose). Small delicate, lilac-pink flowers produced in clusters along the stem. Pkt., 25c.  
*P. Kewensis*. Bright yellow flowers produced in clusters along the stem. Pkt., 25c.  
*STEVIA Serrata*. Sprays of small, white flowers, similar to Baby's Breath. Valuable for using with other flowers in bouquets. Pkt., 10c.  
*SCHIZANTHUS Wisetonensis* (Poor Man's Orchid; Butterfly Flower). A selected greenhouse strain of this popular pot plant. Pkt., 10c.  
*SOLANUM* (Jerusalem Cherry). An ornamental pot plant of dwarf, branching habit. Produces bright scarlet, globular berries. 1 foot. Pkt., 10c.  
*SMILAX*. A graceful climber for the greenhouse. Desirable for festooning and table decorations. Pkt., 10c.



Calceolaria.



Primula.



Cineraria.



# Flowers for Every Situation

To assist you in selecting the most suitable flowers for the various locations and conditions you must deal with in gardening, we have tried to group the most popular kinds into several general classes. While not intended to be infallibly perfect in their adaptability for each situation, they will serve as a valuable guide in arranging your planting.

## Items Marked (\*) Perennials

### Fragrant and Cut Flowers

- |                           |                |
|---------------------------|----------------|
| *Aquilegia                | Hunnemannia    |
| *Azemone                  | Larkspur       |
| *Antirrhinum              | Lavender       |
| *Achillea                 | Lavatera       |
| *Agrostemma               | *Lupinus       |
| *Anthemis                 | Marigold       |
| *Anchusa                  | Mignonette     |
| Arctotis                  | Mimulus        |
| Asters                    | Nasturtium     |
| Bartonia                  | Nicotiana      |
| Calliopsis                | Nigella        |
| Carnation                 | Pansy          |
| Calendula                 | Petunia        |
| Chinese Wool-<br>flower   | Pentstemon     |
| Cornflower                | *Physalis      |
| Columbine                 | Phlox          |
| Cosmos                    | *Polyanthus    |
| *Cowslip                  | Poppy          |
| *Cleome                   | Primrose       |
| *Coreopsis                | *Pyrethrum     |
| Cynoglossum               | Rudbeckia      |
| *Canterbury Bells         | Schizanthus    |
| *Cerastium                | Scabiosa       |
| *Siberian Wall-<br>flower | Silene         |
| *Cuphea                   | Shasta Daisy   |
| Dahlia                    | *Salvia        |
| *Delphinium               | Statice Sin.   |
| Datura                    | Stevia         |
| Dianthus                  | *Stocks        |
| Didiscus                  | *Stokesia      |
| Dimorphotheca             | Sweet Peas     |
| Everlastings              | *Sweet Rocket  |
| Feverfew                  | Sweet Sultan   |
| Four O'clock              | *Sweet William |
| Foxglove                  | Snapdragon     |
| *Gaillardia               | Sunflower      |
| Gladiolus                 | Verbena        |
| *Geranium                 | *Valeriana     |
| Godetia                   | *Veronica      |
| *Geum                     | Viola          |
| Grevillea                 | Violet         |
| *Gypsophila               | *Wallflower    |
| *Heliotrope               | Zinnia         |

### Flowers for Backgrounds

- |               |              |
|---------------|--------------|
| Antirrhinum   | Hollyhock    |
| Canna         | Larkspur     |
| Cosmos        | Lavatera     |
| Cleome        | Lupinus      |
| Chrysanthemum | Lychnis      |
| Coreopsis     | Marigold     |
| Castor Bean   | Salpiglossis |
| *Delphinium   | Salvia       |
| *Digitalis    | Sunflower    |
| Euphorbia     | Zinnia       |
| Hibiscus      |              |

### Flowers for Rock Gardens

- |            |           |
|------------|-----------|
| Abronia    | Lobelia   |
| Alyssum    | *Myosotis |
| *Arabis    | *Pinks    |
| *Aquilegia | Phlox     |
| *Aubrietia | Portulaca |
| *Bellis    | Primula   |
| Candytuft  | Torenia   |
| Ice Plant  | Verbena   |
| Linaria    |           |

### Flowers for Shaded and Semi-Shaded Corners

- |                         |               |
|-------------------------|---------------|
| Alyssum, Sweet          | Larkspur      |
| *Aconitum               | Lobelia       |
| Anemone                 | Lupinus       |
| Asters                  | Matricaria    |
| *Bellis                 | Musk Plant    |
| Begonia (Tuber-<br>ous) | *Myosotis     |
| Canterbury Bells        | Nemophila     |
| Columbine               | Oenothera     |
| Coreopsis               | *Pansy        |
| Cowslip                 | Poppy (Hardy) |
| Clarkia                 | *Scarlet Flax |
| Daisy                   | Schizanthus   |
| Delphinium              | Snapdragon    |
| Fern                    | Sweet Sultan  |
| Foxglove                | Torenia       |
| Godetia                 | Vinca         |
| Hardy Primrose          | Violet        |
|                         | Viola Cornuta |

### Flowers for Massed Colors

- |                |                  |
|----------------|------------------|
| Ageratum       | Lantana          |
| African Daisy  | *Lobelia         |
| *Alyssum       | Larkspur         |
| *Arabis        | *Lupinus         |
| Antirrhinum    | Marigold         |
| Asters         | Marvel of Peru   |
| Balsam         | Myosotis         |
| Begonia        | Nemesia          |
| Candytuft      | Pansy            |
| Celosia        | Pentstemon       |
| Calendula      | Petunia          |
| Calliopsis     | Phlox            |
| Carnation      | Poppy            |
| *Chrysanthemum | Portulaca        |
| Cornflower     | *Salvia          |
| Cosmos         | Salpiglossis     |
| Dahlias        | *Sweet William   |
| Dianthus       | Tagetes, Signata |
| Eschscholtzia  | Primula          |
| *Gaillardia    | Verbena          |
| Geranium       | Vinca            |
| Godetia        | Zinnia           |
| Hunnemannia    |                  |

### Flowers for Bedding and Cutting

- |                           |                                 |
|---------------------------|---------------------------------|
| *Achillea                 | Love-in-a-Mist                  |
| Ageratum                  | Marigold (Scotch<br>and French) |
| *Alyssum                  | *Myosotis                       |
| Balsam                    | Pansies                         |
| Calendula                 | Petunia, Hybrids                |
| *Candytuft                | Phlox Drummondii                |
| *Carnation                | *Polyanthus                     |
| *Cerastium                | Salvia                          |
| Chinese Forget-<br>Me-Not | *Shasta Daisy                   |
| Coreopsis                 | Snapdragon                      |
| Coleus                    | (Semi-Dwarf)                    |
| *Cowslip                  | *Sweet William                  |
| *Dianthus                 | Verbena                         |
| *Gaillardia               | Vinca Rosea                     |
| Heliotrope                | Violas                          |
| Lobelia                   | Zinnia                          |

### Flowers for Edging

- |                  |                  |
|------------------|------------------|
| Alyssum          | Nemesia          |
| Ageratum         | Pansy            |
| *Arabis          | Petunia          |
| *Bellis          | *Pinks           |
| Candytuft        | Phlox            |
| Daisy            | Portulaca        |
| Godetia          | Pyrethrum        |
| Lobelia          | Verbena          |
| Marigold, French | Viola            |
| *Myosotis        | Tagetes          |
| Nasturtium       | Zinnia, Haageana |
| Nemophila        |                  |

### Climbers

- |                  |                               |
|------------------|-------------------------------|
| *Ampelopsis      | Mormordica                    |
| Balloon Vine     | Nasturtium                    |
| Cardinal Climber | Passiflora                    |
| Cobaea           | Sweet Peas                    |
| Canary Bird Vine | Scarlet Runner                |
| Convolvulus      | Beans                         |
| Cypress Vine     | Thunbergia                    |
| Hop (Japanese)   | Wild Cucumber                 |
| Hyacinth Bean    |                               |
| *Kudzu Vine      | Climbers for<br>House Culture |
| *Lathyrus        | Asparagus                     |
| Moonflower       | Smilax                        |
| Morning Glory    |                               |

### Flowers for Hanging Baskets and Veranda Boxes

- |             |                |
|-------------|----------------|
| Alyssum     | Marigold       |
| Asparagus   | Nasturtium     |
| Begonia     | Petunia        |
| Candytuft   | Pansy          |
| Cineraria   | Smilax         |
| Coleus      | Thunbergia     |
| Convolvulus | Torenia        |
| Geranium    | Verbena        |
| *Linaria    | Vinca Vine     |
| Lobelia     | Zinnia, Pompon |

### Flowers for Damp Spots

- |             |             |
|-------------|-------------|
| *Heliotrope | *Pansy      |
| *Hibiscus   | *Snapdragon |
| *Lobelia    | *Viola      |
| *Myosotis   | *Wallflower |

### Flowers for Poor Soil and Dry Places

- |               |                |
|---------------|----------------|
| Alyssum       | Golden African |
| Arctotis      | Daisy          |
| Balsam        | Mimosa         |
| Calliopsis    | Petunia        |
| Centaurea     | Phlox          |
| Eschscholtzia | Poppies        |
| Four O'clocks | Portulaca      |
| Godetia       |                |

### House Plants

- |             |          |
|-------------|----------|
| Asparagus   | Geranium |
| Begonia     | Lantana  |
| Calceolaria | Mimulus  |
| Cineraria   | Pansy    |
| Coleus      | Petunia  |
| Cyclamen    | Smilax   |
| Ferns       | Vinca    |
| Fuchsia     |          |

## Seeds of Hardy Flowers

**PERENNIALS** will bloom the second year from seed and are permanent thereafter. They grow larger and stronger and produce more flowers each year. They are unexcelled for their usefulness in color schemes and as cutting flowers; they give that charming, well established and natural appearance to any garden. Most of these plants run high in price—an attractive perennial border may require several hundred dollars worth of plants. You can secure the same results with a few dollars worth of seed and have the fascination of seeing your plants grow up under your own care.

**HOW TO GROW THEM.** Some of these hardy flowers will bloom the first year from seed, if sown in the hotbed in February or March. Outdoors they should be sown any time from the end of May until August. It is best to start them early so that the plants will be well established and able to stand the cold weather. The best place to sow the seed is in a cold frame, but if you have none, make a seedbed of finely sifted soil enriched with well rotted manure or sheep manure. Over the top of this spread a layer about 2 inches thick of humus, or soil thoroughly mixed with humus. Sow the seed in drills and cover with not more than  $\frac{1}{4}$  inch; the very small seeds should only be pressed into the soil. Press down with a flat board and water gently through a fine rose. Never allow the soil to dry while the seeds are germinating, for as soon as they sprout and until they start to root, the life of the plants depends entirely on soil moisture. It is fatal to allow the soil to become dry even for a few minutes at this time. This is the most common cause of failure, and to prevent the drying out, the seedbed should be shaded from the hot Summer sun and carefully watched and watered until the plants have grown from 4 to 5 leaves. Humus retains its moisture for a much longer period than soil and that is why we advocate its use in seedbeds.

Most seeds germinate in from 8 to 14 days, but there are some that take a month to come up, so do not become impatient. If the seedlings come up too thick, thin them out, transplanting the extra plants to pots or boxes. The plants should be set out in their permanent places in the garden early in October so that they have time to establish themselves before the frost sets in. About the middle of December—after the ground is well frozen, cover the plants with a layer of leaves, straw, peat moss, or well-rotted manure which should be raked off again a little at a time starting in March. Delphiniums, foxgloves, poppies, and campanulas need a little different treatment to the other perennials in wintering over, for they are very apt to rot. Cover them with brushwood before adding the leaves or manure. This will prevent packing down on the plants, which generally starts the rot. Explicit cultural directions will be found on each packet of Palmer's Perennial Seeds.

**HARDY PERENNIAL PLANTS.** See pages 54 and 55.

### General List of Hardy Flower Seeds

	Pkt.
ACHILLEA Millefolium rubrum (Yarrow). 2 ft. June to October. Reddish pink.....	\$0.15
Parnassia, The Pearl (Milfoil). 2½ ft. June to September. White.....	.18
ACONITUM Napellus (Monkshood). 3 ft. August to October. Blue.....	.15
AGROSTEMMA Coronaria atrosanguinea (Rose Camphor or Mullein Pink). 2 ft. July to Sept. Crimson.....	.10
ALYSSUM Saxatile compactum (Gold Dust). 9 inches. April-May. Golden yellow.....	.10
AMPELOPSIS Veitchii (Boston Ivy). Best vine for covering walls.....	.10
ANCHUSA ITALICA Dropmore (Alkanet or Bugloss). 4 ft. June to September. Deep blue.....	.10
ANEMONE Pulsatilla (Windflower). 9 to 12 inches. April-May. Violet-purple.....	.20
St. Brigid. 10 in. May-June. Mixed.....	.10
ANTHEMIS Kelwayi (Golden Marguerite or Yellow Daisy). 2 ft. June to September. Golden yellow Daisies.....	.10
AQUILEGIA (Columbine), Chrysantha. 2 ft. May-June. Pale yellow.....	.10
Flora plena (Red Riding Hood). See Novelties, page 5.	
Long-Spurred, Crimson Star. See Novelties, page 5.	
Coeurulea (Rocky Mountain Columbine). 3 ft. May-June. Blue and white.....	.10
Silver Queen, Long Spurred. 2½ ft. May-June. Pure white.....	.25
Copper Queen, Long Spurred (New). 3 ft. May-June. Copper-bronze.....	.40
Pink Shades, Long Spurred. 3 ft. May-June. Pink shades.....	.20
Blue and Lavender Shades, Long Spurred. 3 ft. May-June. Blue and lavender.....	.20
Red and Yellow Shades, Long Spurred. 3 ft. May-June. Red and yellow.....	.20
Mrs. Scott Elliott's Long Spurred Hybrids (Mixed). 3 ft. May-June. All colors.....	.25
Palmer's Long Spurred Hybrids. 3 ft. May-June. Mixed.....	.15
Single Mixed. 2½-3 ft. May-June. Mixed.....	.10
<b>SPECIAL COLUMBINE COLLECTION, 1 PKT. EACH OF THE 8 BEST VARIETIES FOR \$1.40.</b>	
ARABIS alpina (Rock Cress). 5 inches. April-May. White.....	.10
ASTERS, Hardy Mixed (Michaelmas Daisy). 3 ft. Sept.-Oct. Blue and lavender shades mixed.....	.10
Alpinus (Dwarf Michaelmas Daisy). 12 inches. September-October. Blue.....	.20
AUBRIETIA Deltoidea Leichtlini (Rainbow Rock Cress). 6 inches. April-May. Rosy carmine.....	.15
BELLIS Perennis, Giant Double White (English Double Daisy). 6 inches. April to June. White.....	.10
Giant Double Pink. 6 inches. April to June. Pink.....	.10
Giant Double Red. 6 inches. April to June. Red.....	.10
Giant Double Mixed. 6 inches. April to June. Mixed.....	.10
<b>SPECIAL BELLIS COLLECTION, 1 PKT. EACH OF 3 ABOVE SEPARATE COLORS, 25 CENTS</b>	
BOCCONIA Cordata (Plume Poppy). 6 to 8 ft. July to October. Creamy white feathery flowers.....	.15
CAMPANULA Carpatia Blue (Carpathian Harebell). 12 inches. June to August. Blue.....	.10
Carpatia alba (Carpathian Harebell). 12 inches. June to August. White.....	.10
Pyramidalis Blue (Chimney Bellflower). 4 ft. August-September. Blue.....	.15
Pyramidalis White (Chimney Bellflower). 4 ft. August-September. White.....	.15
Medium Blue (Canterbury Bells). 3 ft. June-July. Blue.....	.10
Medium White (Canterbury Bells). 3 ft. June-July. White.....	.10
Medium Mauve (Canterbury Bells). 3 ft. June-July. Mauve.....	.10
Medium Rose (Canterbury Bells). 3 ft. June-July. Rose-pink.....	.10
Medium Mixed (Canterbury Bells). 3 ft. June-July. Mixed.....	.10
<b>SPECIAL CAMPANULA MEDIUM COLLECTION, 1 PKT. EACH OF THE ABOVE 4 SEPARATE COLORS FOR 30 CENTS.</b>	



Achillea.



Aquilegia.



Campanula Medium.

## SEEDS OF HARDY FLOWERS—Continued

CAMPANULA Medium, Calycanthema, Blue (Cup and Saucer Flower). 3 ft. June-July. Blue...	\$0.10
Medium, White. 3 ft. June-July. White.....	.10
Medium, Rose. 3 ft. June-July. Rose-pink.....	.10
Medium, Mauve. 3 ft. June-July. Mauve.....	.10
Medium, Mixed. 3 ft. June-July. Mixed.....	.10
SPECIAL CUP AND SAUCER CAMPANULA COLLECTION, 1 PKT. EACH OF THE ABOVE 4 SEPARATE COLORS FOR 30 CENTS.	
CANDYTUFT (Iberis), Gibraltarica. 12 inches. May-June. Lilac.....	.15
Sempervirens. 10 inches. April-May. White.....	.20
Palmer's New Giant Hybrids. 12 inches. May-June. Lavender and pink shades mixed.....	.35
CARNATIONS (Hardy Double Border), Yellow. 3 ft. June to September. Yellow.....	.25
White. 3 ft. June to September. White.....	.25
Rose-Pink. 3 ft. June to September. Rose-pink.....	.35
Hardy Double Border Mixed (Chaubaud's strain). 3 ft. June to September. Mixed.....	.15
CENTAUREA Montana (Hardy Bachelor Buttons or Cornflower). 2 ft. May to Sept. Deep blue..	.10
Americana. 2 ft. May to September. Lavender.....	.10
CERASTIUM tomentosum (Snow-in-Summer). 4 inches. Silvery white foliage.....	.10
CHRYSANTHEMUM leucanthemum Alaska (Shasta Daisy). 2½ ft. May to Sept. Pure white..	.10
Leucanthemum, King Edward VII (Shasta Daisy). 3 ft. June-September. Pure white.....	.15
Japanese Double Early Mixed (Hardy Chrysanthemums). 2 to 3 ft. September to frost. Mixed..	.15
CIMICIFUGA racemosa (Snakeroot). 4 to 5 ft. June-July. White.....	.15
COREOPSIS lanceolata grandiflora. 2 ft. June to October. Golden yellow.....	.10
New Double Flowering. 18 inches. June to October. Golden yellow.....	.15
DELPHINIUM Belladonna (Hardy Larkspur). 3 ft. June to November. Light blue.....	.10
Bellamosum (Hardy Larkspur). 3 ft. July to October. Dark blue.....	.15
Formosum (Hardy Larkspur). 3 ft. June to September. Dark blue with white eye.....	.10
Chinense (Chinese or Dwarf Delphiniums). 1½ ft. June-July. Blue.....	.10
Chinense alba (Chinese or Dwarf Delphiniums). 16 ft. June-July. White.....	.10
Cardinale. 2½ ft. June-July. Scarlet.....	.25
Zalil. 4 ft. June-July. Yellow.....	.35
Gold Medal Hybrids. 5 ft. June-October. Blue shades mixed.....	.15
Blackmore & Langdon's English Hybrids. 6 to 7 ft. June to October. Pinkish lavender to deep purple mixed.....	.25
WREXHAM HOLLYHOCK STRAIN (New). 6 to 7 ft. June to October. All shades mixed.....	.50
(A new type with massive tapering Hollyhock-like spikes. The individual flowers are very large and grow close to the spike. Colors include a wonderful range of new shades).	
SPECIAL DELPHINIUM COLLECTION, 1 PKT. EACH OF 10 BEST VARIETIES FOR \$1.75.	
DIANTHUS Allwoodi (Perpetual Blooming Hardy Pinks). 18 in. June to October. All colors mixed..	.50
Deltoides (Maiden Pinks). 8 inches. June-July. Pink.....	.20
Plumarius, Single Mixed (Pheasant Eye Pinks). 12 inches. June-July. Mixed.....	.10
Plumarius, Double Mixed (Double Scotch Pinks). 12 inches. June-July. Mixed.....	.10
DICTAMNUS Fraxinella (Gas Plant). 3 ft. June-July. Mixed.....	.15
DIGITALIS Gloxinoides (Foxgloves). White. 2 to 3 ft. June-July. White.....	.10
Gloxinioides, Purple. 2 to 3 ft. June-July. Purple.....	.10
Gloxinioides, Rose. 2 to 3 ft. June-July. Rose.....	.10
Gloxinioides, Mixed. 2 to 3 ft. June-July. Mixed colors.....	.10
Canariensis. 2 to 3 ft. June-July. Pale yellow.....	.15
The Shirley. 4 to 6 ft. June-July. Spotted mixed.....	.25
SPECIAL FOXGLOVE COLLECTION, 1 PKT. EACH OF 4 SEPARATE COLORS FOR 35 CENTS.	
ECHINACEA purpurea. See Rudbeckia purpurea.	
ECHINOPEPS Ritro (Blue Globe Thistle). 3 to 4 ft. July-August. Steel blue.....	.20
EDELWEISS (Leontopodium). 6 inches. July-August. Silver gray.....	.15
EUPATORIUM Fraseri (Hardy Ageratum). 2 ft. August-September. Pure white.....	.10
Purpureum (Hardy Ageratum). 2 ft. August-September. Lavender-purple.....	.25
GAILLARDIA grandiflora (Blanket Flower). Mixed. 2 ft. June to September. Red and yellow shades mixed.....	.10
Burgundy. See Novelties, page 5.	
Portola Hybrids Mixed (Blanket Flower). (New). 2 to 3 ft. June-September. Flowers of varied shades of red tipped golden on long stiff stems.....	.35
The Dazzler. (Novelty, 1930). 2½ feet. June-September. Dark red, tipped with orange.....	.25
GEUM, Mrs. Bradshaw. 1½ ft. May to September. Orange-red.....	.15
Lady Stratheden. 1½ ft. May to September. Golden yellow.....	.20
GYPHOPHILA paniculata (Hardy Baby's Breath). 2 to 3 ft. June-July. Pure white.....	.10
Paniculata fl. pl. 2 to 3 ft. June-July. Double white flowers.....	.25
Repens. Trailing. July-August. White.....	.15
HEUCHERA Sanguinea splendens (Coralbella). 1½ ft. May to September. Coral-red.....	.20
HIBISCUS, Red (Mallow Marvels). 2 to 3 ft. July-August. Red.....	.10
White. 2 to 3 ft. July-August. White.....	.10
Pink. 2 to 3 ft. July-August. Pink.....	.10
Finest Mixed. 2-3 ft. July-August. Mixed colors.....	.10
HOLLYHOCK, Chater's Double Red. 5 to 7 ft. July to October. Red.....	.10
Chater's Double Maroon. 5 to 7 ft. July to October. Maroon.....	.10
Chater's Double Newport Pink. 5 to 7 ft. July to October. Newport pink.....	.10
Chater's Double Rose-Pink. 5 to 7 ft. July to October. Rose-pink.....	.10
Chater's Double White. 5 to 7 ft. July to October. White.....	.10
Chater's Double Yellow. 5 to 7 ft. July to October. Yellow.....	.10
Chater's Double Mixed. 5 to 7 ft. July to October. Mixed doubles.....	.10
SPECIAL HOLLYHOCK COLLECTION, 1 PKT. EACH OF 6 VARIETIES FOR 50 CENTS.	
HOLLYHOCK, Single. Mixed. Mixed singles.....	.10
HONESTY (Lunaria biennis). Crimson. (Pope's Money or Silver Dollar). 2 ft. May-June.....	.15
Purple. 2 ft. May-June. Purple.....	.15
White. 2 ft. May-June. White.....	.15
IBERIS. See Candytuft.	
LATHYRUS LATIFOLIUS (Hardy Sweet Peas). Pink Beauty. 6 ft. July-August. Pale pink...	.20
White Pearl. 6 ft. July-August. Pure white.....	.20
Bright Red. 6 ft. July-August. Red.....	.20
Mixed. 6 ft. July-August. Mixed colors.....	.10
LAVANDULA vera (Sweet Lavender). 1 to 1½ ft. July to September. Lavender-blue, fragrant..	.10
LIATRIS Spicata (Blazing Star or Kansas Gay Feather). 4 to 5 ft. July to September. Long spikes of rosy purple flowers.....	.25
LINUM PERENNE Flavum (Hardy Flax). 1 ft. May to August. Golden yellow.....	.25
Heavenly Blue (Hardy Flax). 1½ ft. May to August. Blue.....	.10
LOBELIA Cardinalis (Cardinal Flower). 2½ to 3 ft. July to September. Scarlet.....	.25
LUPINUS Polyphyllus, Blue (Perennial Lupine). 3 to 4 ft. July to September. Blue.....	.10
Polyphyllus, White (Perennial Lupine). 3 to 4 ft. July to September. White.....	.15
Polyphyllus roseus (Perennial Lupine). 3 to 4 ft. July to September. Rose-pink.....	.15
Polyphyllus Mixed (Perennial Lupine). 3 to 4 ft. July to September. Mixed colors.....	.10
Harkness Regule Hybrids Mixed. 4 to 5 ft. July to September. A new mixture of art shades...	.25



Shasta Daisies.



Delphinium.



Digitalis.

## SEEDS OF HARDY FLOWERS, Continued



Pyrethrum.



Lupines.



Sweet William.

	Pkt.
LYCHNIS Chalcedonica (Jerusalem or Maltese Cross). 2 to 2½ ft. June to August. Bright scarlet.	\$.10
Viscaria Splendens (Rose Campion). 12 inches. June to August. Pretty crimson-erise.	.10
LYTHRUM Roseum Superbum (Loosestrife). 3 to 4 ft. July-September. Rose.	.15
MALVA Moschata (Musk Mallow). 1 to 2 ft. June-September. Rose.	.10
MATRICARIA Capensis (Feverfew). Double Snowball. 1 to 1½ ft. June-October. Pure white.	.10
Double Golden Ball. 1 to 1½ ft. June-October. Golden yellow.	.15
MECONOPSIS Baileyi (Tibetan Poppy). 2 to 3 ft. Sky-blue.	.50
MONARDA Didyma (Bergamot; Oswego Tea; Bee Balm). 3 to 3½ ft. July-August. Crimson-red.	.25
MYOSOTIS Palustris Semperflorans (Hardy Forget-Me-Not). 10 inches. June-October. Bright blue.	.10
OENOTHERA Missouriensis (Evening Primrose). 1 ft. May-August. Primrose-yellow.	.25
PENTSTEMON Barbatus Torreyi (Beard Tongue). 2 to 3 ft. June-July. Deep salmon-rose.	.15
Sensation Hybrids Mixed. 2 to 3 ft. June-July. Mixed shades.	.20
PHLOX Decussata (Hardy Phlox). Mixed Colors. 2 to 3 ft. July-October.	.10
PHYSOSTEGIA (Dragonhead), Virginica, Pink. 2 ft. June-September. Delicate pink.	.10
PHYSOSTEGIA (Dragonhead), Virginica, White. 2 ft. June to September.	.10
PLATYCODON Grandiflorum, Blue (Chinese Bellflower). 2 ft. June-August. Blue.	.10
Grandiflorum Album (Chinese Bellflower). 2 ft. June-August. White.	.10
POLYANTHUS, English Exhibition Mixed (Bunch-Flowered Primrose). 6 to 9 in. April-June. Mixed.	.15
POPPY Nudicaule (Iceland Poppy). New Hybrid Mixed. 12 inches. May-September. Mixed.	.15
Nudicaule, Fakenham Hybrids. See Novelties, page 5.	
POPPY Orientale (Oriental Poppy). Scarlet. 3 ft. May-June. Fiery scarlet.	.15
Mrs. Perry. 3 ft. May-June. Orange-apricot.	.35
Queen Alexandra. 3 ft. May-June. Rosy salmon.	.30
Mixed Hybrids. 3 ft. May-June. Mixed colors.	.10
POTENTILLA. 1½ ft. June-September. Assorted colors.	.10
PRIMULA Vulgaris (English Primrose). 6 inches. April-May. Lemon-yellow.	.10
Veris (Cowslip). Giant Munstead Strain. 10 inches. April-May. Yellow flowers in clusters.	.15
Beesiana (New). 6 to 9 inches. April-May. Velvety purple with yellow eye. Protect in Winter.	.35
Officialis Hybrida. 10 inches. April-May. Mixed blue and yellow.	.25
PYRETHRUM ROSEUM (Painted Daisy). Single Album. 2 ft. June-September. White.	.20
Single Roseum. 2 ft. June-September. Rose-pink.	.20
Single Atrosanguineum. 2 ft. June-September. Crimson.	.20
Roseum Hybridum, Single Mixed. 2 ft. June-September. Mixed.	.10
Roseum Hybridum, Double Mixed. 2 ft. June-September. Mixed.	.25
RUDBECKIA Newmanni (Coneflower). 2 ft. June-October. Orange-yellow, dark center.	.10
Purpurea (Purple Coneflower). 3 ft. July-September. Purplish pink.	.15
SALVIA (Sage), Farinacea. 4 to 5 ft. July-August. Pale blue.	.15
Azurea Grandiflora. 2 ft. August-September. Sky-blue.	.15
Pratensis. 2 ft. June-July. Deep blue.	.20
SCABIOSA Caucasicca (Bluebonnet; Cushion Flower). 2 to 3 ft. June-August. Lavender-blue.	.15
SHASTA DAISY. See under Chrysanthemum.	
STATICE Latifolia (Sea Lavender). Mixed. 1 to 2 ft. June-July. Blue and lavender shades.	.10
STOKESIA Cyanca, Blue (Stokes' or Cornflower Aster). 2 ft. July-October. Purple.	.10
SWEET ROCKET (Hesperis Matronalis). Purple. 2 ft. May-June.	.10
White. 2 ft. May-June.	.10
Mixed. 2 ft. May-June.	.10
SWEET PEAS. See Lathyrus.	
SWEET WILLIAM (Dianthus Barbatus). Newport Pink. 1½ ft. May-July. Salmon-rose.	.15
Pink Beauty. 1½ ft. May-July. Pale salmon.	.10
Rose Queen. 1½ ft. May-July. Rose-pink.	.10
Scarlet Beauty. 1½ ft. May-July. Scarlet.	.10
Dark Crimson. 1½ ft. May-July. Crimson.	.10
Giant White. 1½ ft. May-July. White.	.10
Holborn Glory. 1½ ft. May-July. Auricula-eyed mixed.	.15
Single Mixed. 1½ ft. May-July. Mixed colors.	.10

### SPECIAL SWEET WILLIAM COLLECTION, 1 PKT. EACH OF 6 SEPARATE COLORS FOR 50 CENTS.

THALICTRUM Dipterocarpum (Meadow Rue). 4 ft. August-September. Rosy purple spikes.	.25
VALERIANA (Hardy Heliotrope). Crimson. 3 ft. June-July. Crimson.	.15
White. 3 ft. June-July. White.	.15
VERONICA (Speedwell). Spicata Blue. 1½ ft. June-July. Deep blue.	.15
Longifolia. 2½ ft. August-October. Deep blue.	.10
VIOLA CORNUTA (Tufted Pansies; Johnny-Jump-Up).	
Golden Gem. 6 to 8 inches. April-November. Golden yellow.	.20
G. Wermig (New). 10 inches. April-November. Reddish purple.	.25
Mauve Queen. 6 to 8 inches. April-November. Mauve.	.10
White Perfection. 6 to 8 inches. April-November. White.	.10
Black Prince. 6 to 8 inches. April-November. Blackish blue.	.10
Ardwell Gem. 6 to 8 inches. April-November. Primrose-yellow.	.10
Jersey Gem (New). 6 to 8 inches. May to frost. Violet-blue.	.50
Mixed. 6 to 8 inches. April-November. Mixed.	.10

### VIOLA COLLECTION, 1 PKT. EACH OF 7 VARIETIES FOR \$1.40.

VIOLA Odorata Semperflorans (Sweet Violet). 10 inches. April-May. Violet-blue.	.10
WALLFLOWER, New Hardy Siberian. 15 inches. May-Sept. Gorgeous, fragrant, orange flowers.	.35

## PALMER'S SPECIAL HARDY PERENNIAL COLLECTION

### 18 of the Best for \$1.50

	Pkt.		Pkt.
ACHILLEA, The Pearl	\$.15	DIANTHUS, Double Mixed	\$.10
ANCHUSA, Dropmore	.10	FOXGLOVE, Mixed	.10
AQUILEGIA, Single Mixed	.10	GAILLARDIA, Mixed	.10
BELLIS, Double Mixed	.10	HOLLYHOCKS, Double Mixed	.10
CAMPANULA, Medium Mixed	.10	LUPINES, Hardy Mixed	.10
CORNFLOWER, Perennial	.10	POPPY, Orientale, Mixed	.10
SHASTA DAISY	.10	STATICE, Blue	.10
COREOPSIS, Lanceolata	.10	SWEET ROCKET, Mixed	.10
DELPHINIUM, Gold Medal Hybrids	.15	SWEET WILLIAM, Mixed	.10

REGULAR VALUE, \$1.90.

—Special, \$1.50.





## Hardy Alpine Plants for the Rock Garden

Ready for delivery during April and early May, and again in late September and October. All plants are extra strong roots. No orders sent C. O. D.

Prices, 3 plants for 75c; \$2.50 per doz., except where otherwise stated.  
**ALYSSUM Saxatile compactum.** Masses of golden yellow flowers. Height 1 foot.

**ARABIS alpina.** Flowers of pure white. An excellent border plant.

**ARMERIA formosa.** Dense green foliage with bright pink flowers.

**ASTER, Japanese.** (Mauve Cushion). Exquisite mauve shade with silvery white reflections. The plant forms a circular cushion-like clump 2½ feet across.

**CAMPANULA Carpatia.** Erect blue flowers. Delightful for edging.

**DIANTHUS Plumarius.** June pinks; spicy odor. Height 1 foot.

**Deltoides.** Brilliant rose Maiden Pink.

**IBERIS Sempervirens** (Candytuft). Flat pure white flowers. Blooms in August and September.

**IRIS Pumila, Alba.** Fine for borders or edgings. Pure white.

**Viola.** Dwarf. Rich violet, blooms in April.

**Lutea.** Creamy yellow. Blooms in April.

**LINUM Perenne.** Blooms all Summer, throwing large blue flowers and very graceful foliage. 1½ feet high.

**LYCHNIS Haageana.** Flame colored blossoms in June and July. Very attractive.

**MERTENSIA Virginica.** Purplish blue flowers, blooming from March to May. Better known as the Virginia Bluebell.

**MYOSOTIS palustris semperflorens** (Forget-Me-Not). Bright blue flowers. Height 10 inches.

Prices, 3 plants, 90c; \$2.00 per doz.

**PHLOX Subulata, Alba** (Mountain Pink). Creeping habit, covered with clouds of tiny white flowers. Ideal for the rock garden. Blooms in April and May.

**Subulata Rosea.** Same as above but with true pink blossoms.

**SEDUM Maximowiczii** (Stonecrop). Pure yellow with an abundance of foliage. Late bloomer, in July and August.

**Acre** (Golden Moss). Flowers bright yellow, creeping habit and very dwarf. Attractive green foliage.

Prices, 3 plants, 60c; \$2.00 per doz.

**SEMPERVIVUM.** Very interesting plants, forming rosettes. Particularly good for carpet bedding, dry banks, rockeries or walls.

Prices, 3 plants, \$1.40; \$5.00 per doz.

**TRILLIUM Grandiflorum.** A shade loving plant with large white flowers. Very showy, better known as the Snow Trillium.

**VALERIANA Coccinea.** Blooms all Summer, producing flower heads of rose tinted white. Height 2 feet.

**VERONICA Amethystina.** Bright blue, blooms in June and July. Height 1 foot.

**VINCA minor.** Very satisfactory as a ground cover under shrubs or trees. Evergreen and will thrive in the shadiest place.

Prices, 3 plants, 45c; \$1.50 per doz.

**VIOLA, Jersey Gem.** A leader in tufted pansies, beautiful blue-violet carried on 12-inch stems and blooms all Summer.

Prices, 3 plants, \$1.25; \$4.00 per doz.; \$30.00 per 100.

### Special Rock Garden Lover's Collection

3 Plants each of the varieties listed above  
 (regular value, \$20.00) for..... **\$17.50**

## Water Lilies and Aquatics

(ROOTS)

These magnificent flowers can be grown with the utmost ease in your pool. Our plants are raised for us by the foremost Water Lily specialist in the country. No plants shipped C. O. D.

**Culture.** Hardy water lilies should be planted at the end of April or beginning of May. They are best grown in small cedar tubs (see page 74), about 1 foot deep. Place a layer of well-rotted barnyard manure at the bottom of the tub, and fill to 2 inches from the top, with a mixture of 3 parts topsoil, 1 part well rotted manure and a small quantity of bone meal. The root should be planted very near the surface. Fill up to 1 inch from the top of the tub with sand or small pebbles, to keep the soil from discoloring the water. The top of the tub should be from 6 to 12 inches below the surface of the water.

### Hardy Water Lilies or Nymphaeas

	Each
<b>Marliac.</b> White .....	\$1.25
<b>Marliac.</b> Flesh pink .....	1.25
<b>Marliac.</b> Yellow .....	2.00
<b>Marliac.</b> Rose-pink .....	2.00
<b>Odorata.</b> Common White Waterlily .....	.50
<b>TENDER NYMPHAEAE, Blue Beauty.</b> (Plant end of May). Beautiful blue shade. Each, \$2.50.	

### Other Water Plants

**WATER HYACINTHS** (Eichornia Crassipes Major). Float on top of water. Sprays of lavender flowers. Each, 25c; doz., \$2.50.

**WILD RICE** (Zizania Aquatica). Graceful panicles of white flowers on stems 5 to 8 ft. tall. Should be grown in shallow water. \$1.50 per doz.

**PICKEREL WEED** (Pontederia Cordata). Spikes of blue flowers. Plant grows 2 ft. tall. \$2.50 per doz.

**WILD RICE SEED.** For sowing along lakes and streams to attract birds. 1 lb., \$1.00; 5 lbs., \$4.50; 100 lbs., \$75.00.

# Hardy Perennial Plants

Ready for delivery during April and early May, and again in late September and October. All are strong healthy roots. Plant orders are shipped by express only. No plants sent C. O. D.

PRICES (EXCEPT WHERE NOTED), 3 PLANTS, 75c; DOZ., \$2.50; 100, \$20.00.

**ACHILLEA PTARMICA**, *Boule de Neige*. (Ball of Snow). An improved variety with sprays of perfect double white flowers. Fine for cutting. 1½ ft. June to September.

**A. MILLEFOLIUM** (Rose Flowered Yarrow or Rosy Milfoil). Rosy pink flowers in dense flat heads on stems 18 inches high.

**ACONITUM FISCHERI** (Monkshood). Light blue. Does well in semi-shade. 18 inches to 2 feet. September-October. 3 plants, \$1.00; \$3.50 per doz.; \$25.00 per 100.

**AGROSTEMMA CORONARIA** (Mullein Pink). Purple-crimson, Phlox shaped flowers, silvery foliage. June. 2½ to 3 ft.

**ALYSSUM SAXATILE COMPACTUM** (Gold Dust). Masses of golden yellow flowers. 1 ft. April-May.

**ANCHUSA ITALICA**, *Dropmore*. Gentian-blue flowers on tall showy pyramidal spikes, 4 to 5 ft. tall. June.

**ANEMONE JAPONICA** (Japanese Windflower). Lovely, graceful poppy-like blooms on long stems from late August until severe frost. Fine for cutting and showy in the garden. 2 to 3 ft.

**A. JAPONICA ALBA**. Snow white. Single. 3 plants, \$1.00; \$3.50 per doz.

**A. JAPONICA, HUPHENSIS**. Mauve-pink. A miniature *A. japonica*, fine for rockwork. 1 ft. 3 plants, \$1.00; \$3.50 per doz.

**A. JAPONICA, Prince Heinrich**. Deep pink. 3 plants, \$1.25; \$4.50 per doz.

**A. JAPONICA, Queen Charlotte**. Semi-double, La France pink. 3 plants, \$1.25; \$4.00 per doz.

**A. JAPONICA RUBRA**. Deep velvety red. 3 plants, \$1.25; \$4.50 per doz.

**A. JAPONICA, Whirlwind**. Semi-double; pure white. 3 plants, \$1.00; \$3.50 per doz.

**AQUILEGIA COERULEA** (Rocky Mountain Columbine). Blue and white. Very large flowers. Forms strong bushy plant. 1½ ft. May-June.

**A. LONG SPURRED HYBRIDS**. A magnificent strain of the choicest Columbines in beautiful shades, including many new varieties. 2½ to 3 ft. May-June.

**ASCLEPIAS TUBEROSA** (Butterfly Weed). Showy, erect umbels of bright orange flowers. 2 ft. July-August. 3 plants, \$1.00; \$3.50 per doz.

**ASTERS, Hardy**. The following are the most improved of our native wild Asters, so conspicuous during late Summer and early Fall.

**A. NOVAE-ANGLIAE**, *New England Aster*. Showy pink to purple. Slightly branched and spreading rapidly from the roots.

**A. NOVAE-ANGLIAE ROSEUM SUPERBUM**. This is by far the best of the Hardy Asters. Color almost red and a profuse bloomer.

**A. NOVI-BELGI**, *St. Erwin*. Grows 3 ft. high; is of a pleasing pink and very free flowering.

**A. Robert Parker**. Blue. Blooms in September.

**A. Mauve Cushion**. Distinct species, forming a circular cushion-like plant 2½ ft. across and rarely more than 9 inches high. The flowers are of a delicate mauve with silvery white reflex, and are produced in profusion.

**A. Mrs. Raynor**. Crimson. Blooms in September.

**A. Peter's White**.

**A. TATARICA**. A distinct, large, bluish violet color. Very late bloomer. Height about 6 ft.

**BAPTISIA AUSTRALIS** (False Indigo). 3 ft. Erect sprays of dark blue flowers in June and July, shaped like sweet peas. 3 plants, \$1.00; \$3.50 per doz.

**BOCCONIA CORDATA** (Plume Poppy). Most tropical looking of our hardy plants. Foliage broad and glaucous. Tall, upright habit, plant terminating in great spikes of whitish flowers. Used for backgrounds or perennial borders. 3 plants, \$1.00; \$3.50 per doz.

**CAMPANULA CALYCANthemA** (Cup and Sancer). Choice Hybrids. 2 to 3 ft. June.

**C. CARPATICA** (Carpathian Harebell). Blue. For rockeries and borders. 8 inches. July-August.

**C. CARPATICA ALBA**. A white form of above.

**C. MEDIUM** (Canterbury Bells). White, pink, lavender and blue. 2 ft. June.

**C. PERSICIFOLIA** (Peach Bells). Blue. 12 inches. June-July.

**C. PERSICIFOLIA, Alba**. White.

**HARDY CARNATION**. Very fragrant flowers on long cutting stems. Pink, red and white.

**CENTAUREA MONTANA** (Hardy Cornflower). Large blue flowers on long stems, making them fine for cutting. Hardy and bloom continuously. 18 inches to 2 feet.

**C. MONTANA ALBA** (Hardy Cornflower). White.

**CHRYSANTHEMUM, Hardy**. They grow from 1 to 2 ft. tall in every shade of crimson, yellow, orange, pink and white, and stand out more prominent when the first killing frosts have swept the garden. Prices on all Chrysanthemums, 3 plants, 60c; \$2.00 per doz.; \$15.00 per 100.

## CHRYSANTHEMUMS—LARGE FLOWERING TYPES

*Boston*. Bronze.

*Autumn Glow*. Rosy crimson.

*Excelsior*. Bright yellow.

*Oconto*. White.

*Flamingo*. Bronze.

*Bettie*. Pink.

*Favorite*. Buff.

*Old Pink*. Rose-pink.

*Canariense*. Yellow.

*Eldorado*. Bright golden with open center.

*Germania*. Straw white.

*St. Ilmor*. Silver rose.

## CHRYSANTHEMUMS—POMPON OR BUTTON FLOWERING TYPE

*Inez*. Scarlet-bronze and rose.

*Little Bob*. Bronze.

*Iva*. Indian-red.

*Maid of Kent*. White.

**CERASTIUM TOMENTOSUM** (Snow-in-Summer). Silvery foliage; white flowers. Fine for rocks. 6 inches. May-June. 3 plants, \$1.00; \$3.50 per doz.

**COREOPSIS LANCEOLATA**. Golden yellow. 2 ft. June to October.

**DELPHINIUM CHINENSE**, *Bine*. Azure-blue. 1½ ft. June-July.

**D. CHINENSE**, *White*. White form of above.

**D. BELLADONNA**. Turquoise-blue. 4 ft. June to frost.

**D. BELLAMOSA**. Dark blue form of above.

**D. ENGLISH HYBRIDS**, *Exhibition Strain*. Strong stately spikes, often 7 ft. high; lovely color range containing both the Wrexham Hollyhock, and Blackmore & Langdon's Hybrids. June-July. 3 plants, \$1.00; \$3.50 per doz.; \$27.00 per 100.

**D. GOLD MEDAL HYBRIDS**, *Mixed*.

**DIANTHUS PLUMARIUS** (June Pinks). Spicy fragrance. 1 ft. May-June.

**DIGITALIS PURPUREA** (Purple Foxglove). 4 ft. June-July.

**D. GLOXINIAEFLOREA** (Spotted Foxglove). White, pink or purple. 4 ft. June-July.

**D. GLOXINIAEFLOREA**, *The Shirley* (Giant Foxglove). (New). Many new colors. 6 to 7 ft. June-July. 3 plants, 90c; \$3.00 per doz.

**ECHINACEA PURPUREA** (Purple Coneflower). Reddish purple. 3 to 4 ft. July-August.

**GAILLARDIA GRANDIFLORA HYBRIDS**. Yellow and orange-red; very brilliant. 1½ ft. May to November.

**GEUM**, *Mrs. Bradshaw*. Large double scarlet flowers. Showy. 2½ ft. May to July.

**GYPSOPHILA PANICULATA** (Baby's Breath). Grayish white. 2 to 3 ft. June-July.

**G. PANICULATA FLORE PLENO**. Minnie, double, rosette-like flowers in great profusion on branching panicles. 2 to 3 ft. July-August. 3 plants, \$1.00; \$3.50 per doz.



Anemone Japonica, Whirlwind.



Centaurea Montana—Mountain Bluet.



Coreopsis Lanceolata.

# Hardy Perennial Plants

—Continued

**HELIOPSIS SCABRA ZINNIAEFLOA.** Semi-double yellow flowers. 3 inches across. Fine for cutting. 2 to 3 ft. July to October.

**HEUCHERA SANGUINEA MAXIMA** (Coralbells). Coral-pink. 1½ ft. June to September. 3 plants, \$1.40; \$5.00 per doz.

**HIBISCUS** (Mallow Marvels). A robust type of upright habit. Flowers large, in all the richest shades of crimson, pink or white. 3 plants, \$1.00; \$3.50 per doz.

**HOLLYHOCK**, Chater's Double. White, pink, yellow, Newport pink, scarlet and crimson. 5 to 7 ft. July to September.

**IBERIS SEMPERVIRENS** (Candytuft). This sort bears innumerable flat heads of pure white flowers. Bloom in August and September.

**LATHYRUS**, Latifolius (Hardy Sweet Peas). Pink, white and red. Blooms from June to August. 3 plants, 90c; \$3.00 per doz.

**LIATRIS SPICATA** (Kansas Gayfeather). Purple. 4 to 5 ft. July-August.

**LINUM PERENNE** (Flax). Desirable for rockery or border. Light, graceful foliage and large blue flowers all Summer. One foot to 18 inches high. 3 plants, 60c; \$2.00 per doz.

**LUPINUS POLYPHYLLUS**. White, pink and blue. 4 to 5 ft. June-July. 3 plants, \$1.00; \$3.50 per doz.

**L. POLYPHYLLUS**, Harkness Regal Hybrids. A cross between *Lupinus Polyphyllus* and *Lupinus Arboreus*. Produces strong spikes of great length, thickly set with flowers, including many new colors such as copper, orange, amber, rose, etc. 5 to 6 ft. June to August. 3 plants, \$1.40; \$5.00 per doz.

**LYCHNIS CHALCEDONICA** (Maltese or Jerusalem Cross). One of the most brilliant border flowers. Dark green foliage, hairy and narrow. Blossoms all Summer. Bright scarlet flowers.

**MATRICARIA CAPENSIS, FLORE PLENO** (Double White Feverfew). Blooms in May.

**MERTENSIA VIRGINICA** (Virginia Blue Bell). Purplish blue. Blooms from March to May. 3 plants, 75c; \$2.50 per doz.; \$17.00 per 100.

**MINT**, Peppermint and Spearmint. 3 plants, 45c; \$1.50 per doz.

**MONARDA DIDYMA**, or Bee Balm. Red. Blooms from July to September.

**MYOSOTIS PALUSTRIS** (Forget-Me-Not). The large Spring flowering sort with intense sky-blue flowers, bright and attractive. 3 plants, 90c; \$2.00 per doz.

**PACHYSANDRA TERMINALIS** (Japanese Spurge). A low trailing, dense evergreen with glossy green foliage. An excellent ground cover; entirely hardy.

**PAPAYER ORIENTALE** (Oriental Poppy). 2 ft. June. 3 plants, 90c; \$3.00 per doz.

**P. ORIENTALE**, Mrs. Perry. Soft salmon-rose. 3 plants, \$1.00; \$3.50 per doz.

**PENTSTEMON BARBATUS TORREYI**, (Coral Red Beard Tongue). Spikes of deep bright scarlet or coral-red flowers.

**PHLOX DIVARICATA CANADENSIS**. Our native lavender-blue Phlox. Fine for rock-gardens and undergrowth for tulip-beds. 1 ft. May.

**P. MACULATA**. The color is amaranth-pink; a very free-flowering variety; flower trusses 10 inches long; flowers from June until frost. 2 to 2½ ft.

**P. LARGE FLOWERING HARDY** (Phlox decussata).

**P. Baron von Dedem**. Brilliant orange-red.

**P. Eclairer**. Large flowers of carmine-violet-red with pink center.

**P. Fraulein von Lassburg**. Large white.

**P. Jeanne d'Arc**. White.

**P. Jules Sandeau**. Pink.

**P. Mrs. Charles Dorr**. A beautiful shade of lavender.

**P. Rheinlander**. Large salmon-pink with distinct claret-red eye.

**P. Richard Wallace**. White with red eye.

**P. R. P. Struthers**. Cherry-red suffused salmon.

**P. Rijnstroom**. Very large bright rose-pink.

**P. Thor**. Beautiful deep salmon-pink.

**P. La Vague**. Lavender-pink.

**P. SUFFRUTICOSA**, Miss Lingard. Large flowering, blooms earlier than *decussata*. Pure white.

**P. SUBULATA** (Moss Pink). Tiny white, pink and lavender flowers in wonderful profusion. Of creeping habit. Ideal for rock gardens. 3 to 4 inches. April-May.

**PHYSALIS FRANCHETI** (Chinese Lantern Plant). Grown for its decorative fruit, used in Winter bouquets. 2 ft. April-May. 3 plants, 90c; \$3.00 per doz.

**PHYSOSTEGIA** (False Dragonhead). Strong spikes of pure white or pink flowers, lovely for cutting. 2 ft. June to September.

**PLATYCODON GRANDIFLORA** (Saucer Flower). Blue, balloon shaped buds; most attractive. 1½ ft. June-July.

**PLUMBAGO LARPENTAE** (Leadwort). Blue. Blooms August to October. Fine for rockery.

**SALVIA AZUREA** (Blue Sage). Spikes of sky-blue flowers. Blooms August and September.

**S. PRATENSIS**. Showy spikes of deep blue. 2 to 3 ft. Blooms June-July.

**SCABIOSA JAPONICA** (Bluebonnet). Soft lilac-blue. 2 ft. June to August. 3 for 90c; \$3.00 per doz.

**SEDUM ACRE** (Golden Moss). A dwarf variety much used for covering graves. Fine for rock gardens. Foliage green. Flowers bright yellow. 3 plants, 60c; \$2.00 per doz.

**S. MAXIMOWICZI** (Stonecrop). Yellow. Valuable as a late blooming plant. Fine border plant and one of the best for foliage. July and August. 6 inches.

**S. SPECTABILIS**. One of the prettiest of the tall growing species. Pink blooms in August and Sept. 1½ feet.

**S. SPECTABILIS**, Brilliant. Crimson. 1½ ft.

**S. SPURium COCCINEUM**. Flowers crimson. 6 inches.

**S. STOLONIFERA**. A flat trailing variety with pink flowers. 6 inches. July-August.

**S. SARMENTOSUM**. Dwarf trailing variety. 3 inches. Fine for rock pathways.

**S. EVERSII**. Gray foliage—rosy lilac blooms.

**SEMPERVIVUM** (House Leek). Curious and interesting plants forming rosettes of succulent leaves. Good for rockeries, dry banks, carpet bedding or walls. 3 plants, \$1.40; \$5.00 per doz.

**SHASTA DAISY**, Alaska. A decided improvement on the original; pure glistening white. 1½ ft. June to September.

**SIBERIAN WALLFLOWER**. Large heads of very fragrant, brilliant orange flowers. Most effective, either in beds or in rockeries. 1 ft. May to midsummer. 3 plants for \$1.00; \$3.50 per doz.

**STATICE LATIFOLIA** (Sea Lavender). Fine panicles covered with a profusion of small blue flowers. 2 ft. August-September.

**STOKESIA CYANEA** (Cornflower Aster). Sky-blue. 2 ft. July to October.

**SWEET WILLIAM** (*Dianthus Barbatus*). Popular fragrant perennial. Blooms May and June. 1½ ft. Newport pink, rose-pink, white, crimson, mixed.

**TROLLIUS EUROPAEUS** (Globe Flower). Lemon-colored buttercup-like flowers on long stems. 2 ft. May to frost. 3 plants, \$1.40; \$5.00 per doz.

**T. EUROPAEUS**, Orange Globe. Beautiful deep orange. 2 ft. May to September. 3 plants, \$2.25; \$8.00 per doz.



*Dianthus Barbatus*—Sweet William.

**TRITOMA PFITZERI** (Red-Hot Poker Plant). Orange-scarlet, shaded to salmon-rose on edge; continuous bloomer. 2 to 3 ft. August-September. 3 plants, 90c; \$3.00 per doz.

**VALERIANA** (Garden Heliotrope). White; sweet-scented. 3 to 4 ft. June-July.

**VERONICA LONGIFOLIA** (Giant Speedwell). Long, dense, blue spikes. 2 ft. July to September.

**V. SPICATA**. Short, dense spikes of bright blue. 1½ ft. June-July.

**VINCA MINOR** (Myrtle). Blue flowers. Splendid for shade; grows anywhere. 6 inches. April-May. 3 plants, 45c; \$1.50 per doz.

**VIOLA**, Jersey Gem. Beautiful hardy giant blue violet. Blooms all Summer on 12-inch stems. 3 for \$1.25; \$4.00 per doz.; \$30.00 per 100.

**VIOLET**, Sweet Scented Hardy English, Prince of Wales. 3 plants, 75c; doz., \$2.50.

**YUCCA FILAMENTOSA** (Adam's Needle). Of tropical appearance; dark green spoked leaves; large pyramidal clusters of creamy flowers. 4 to 6 ft. June-July. Large 3-year-old plants, 3 for \$1.20; \$4.00 per doz. Specimen plants, \$1.00 each; \$10.00 per doz.

## Greenhouse and Annual Bedding Plants, Etc.

We carry a complete line of these plants in May, including Ferns, Dracaenas, Pandanus, Geraniums, Fuchsias, Marguerites, Zinnias, Asters, Snapdragons, Pansies, Heliotrope, Lantana, etc.



*Gaillardia*.

## Palmer's Hardy Everblooming Roses

Roses are ready for delivery from March 1st until April 30th. After May 15th when growth has started, we supply 2-year-old pot grown in 6-inch pots.

### OUR BUSHES ARE ALL HARDY TWO-YEAR-OLD, FIELD GROWN STOCK

**Culture.** Roses grow best in an open and sunny position. Dig the soil thoroughly, working in well rotted manure or bone meal in a good quantity. Be careful in keeping the roots from exposure to the air. When the bushes arrive, sprinkle them and heel in until the hole is dug to receive them. Place the bush in position, spreading the roots and fill in with fine soil, making it firm with the heel. Cultivate freely during the Summer. An application of bone meal at monthly intervals is advisable. During the hot weather cover the bed with a layer of Peat Moss two inches thick. This will prevent the ground from drying out and becoming baked. In late November draw the soil around the plant to a height of 1 foot. This will serve as a Winter protection.

We ship plants by Express only. No C. O. D. orders sent.

H. P. Denotes Hybrid Perpetual—blooming in June.

H. T. Denotes Hybrid Tea—blooming all Summer.

**FRAU KARL DRUSCHKI.** H. P. Pinkish buds opening to pure white flowers of large size. A strong grower. Each, 60c; 10 for \$5.50.

**OPHELIA.** H. T. Pale salmon-flesh with tint of yellow in petals. Very fragrant. 65c each; \$6.50 per doz.

**RED RADIANCE.** H. T. Large globular flowers of a deep rose-red. Good for cutting. Each, 60c; 10 for \$5.50.

**PINK RADIANCE.** H. T. A brilliant rose-pink, well formed flowers. Blooms all Summer long. Each, 60c; 10 for \$5.50.

**GRUSS AN TEPLITZ.** H. T. Blooms in clusters of brilliant crimson with velvet markings and very fragrant. A large grower. Each, 65c; 10 for \$6.00.

**COLUMBIA.** H. T. Lovely bright pink, well formed flowers. Very sweet scented. 65c each; \$6.50 per doz.

**MME. CAROLINE TESTOUT.** H. T. Large globular flowers of a delightful shade of satiny rose. Strong grower and persistent bloomer. 65c each; \$6.50 per doz.

**GENERAL JACQUEMINOT.** H. P. Scarlet-crimson buds opening to clear red. Very fragrant. Each, 60c; 10 for \$5.50.



Jonkheer J. L. Mock.

**LOS ANGELES.** H. T. Exquisite flowers of salmon-pink with yellow shading. Sweetly perfumed. 65c each; \$6.50 per doz.

**SUNBURST.** H. T. Fine yellow flowers, suffused orange and very fragrant. 65c each; \$6.50 per doz.

**KILLARNEY.** H. T. Long pointed buds opening to flat flowers of sparkling pink. Free bloomer. Each, 65c; 10 for \$6.00.

**WHITE KILLARNEY.** H. T. Typical Killarney form, flowers pure white. Each, 65c; 10 for \$6.00.

**SOUVENIR DE CLAUDIUS PERNET.** H. T. Fine flowers of fadeless yellow. Very free blooming and late. 60c each; \$6.00 per doz.

## Country Club Collection of Hardy Everblooming Roses

All varieties listed below, 90c each; 10 for \$7.50. Extra strong, field-grown, 2-year-old stock.

**KASERIN AUGUSTE VIKTORIA.** H. T. Creamy buds opening up to snowy white, with a tint of lemon. Fragrant and well formed.

**MISS LOLITA ARMOUR.** H. T. A delightful creamy copper color with a reddish orange tinge. Very double and fragrant.

**H. V. MACHIN.** H. T. Immense crimson buds and large open flowers of intense red, perfect in shape. Very robust.

**MRS. WAKEFIELD CHRISTIE-MILLER.** H. T. A lovely clear rose and light pink. Sweetly perfumed and strong habit of growth.

**CHARLES K. DOUGLAS.** H. T. Long pointed buds opening to loosely formed flowers of brilliant crimson scarlet, slightly fragrant.

**EDEL.** H. T. Pure ivory-white blossoms of globular shape. Stately habit.

**ETOILE DE FRANCE.** H. T. Vivid crimson with rounded centers of bright cerise. Long lasting and sweet scented.

**MISS CYNTHIA FORDE.** H. T. Very double flowers of an exquisite shade of pink. The petals are sharply outlined by a light thin edge. Profuse bloomer.

**JONKHEER J. L. MOCK.** H. T. Carmine buds opening to enormous blooms of deep carmine pink, reflexing petals shaded silvery rose.

**MRS. AARON WARD.** H. T. Buds of golden buff opening to fully double flowers of tawny gold and pink. Sweetly perfumed and profuse bloomer.

1 Each of Above 10 Varieties,  
Special, \$7.50.

## The Talisman Rose

An exquisite new creation in Hybrid Teas. The bud is long and perfectly formed. Of very robust habit with glossy green foliage. The petals on the outside are a combination of yellow, gold and pink and as the flower opens up the inside becomes a perfect blending of apricot, old gold and old rose. Truly a wonderful rose. Extra strong, 2-year-old, field-grown plants, specially priced at 90c each; 10 for \$7.50.

## Hardy Climbing and Rambler Roses

Much used for trellises, walls, porches, arbors, etc. We supply fine, strong 2-year-old plants of the following varieties:

**CLIMBING AMERICAN BEAUTY.** The same color as the favorite bush Rose, with rich perfume, and borne singly or in threes. Each, 50c; 10 for \$4.50.

**DOROTHY PERKINS.** Double, soft shell-pink flowers in large clusters. 40c each; \$4.00 per doz.

**DR. W. VAN FLEET.** Long-pointed buds; rich flesh-pink blooms, exquisitely shaped. 50c each; 10 for \$4.50.

**AVIA TEUR BLERIOT.** Rich saffron-yellow flowers. 50c each; 10 for \$5.00.

**EXCELSA.** Large clusters of double, brilliant scarlet-crimson blooms. An improved Crimson Rambler. 45c each; 10 for \$4.00.

**MARY WALLACE.** Semi-double, bright clear rose-pink flowers, with salmon at base of petals. 50c each; \$5.00 per doz.

**PAUL'S SCARLET CLIMBER.** A gorgeous climber; blooms profusely; literally covered with flowers from top to bottom. Beautiful long-pointed buds. 50c each; \$5.00 per doz.

**SILVER MOON.** Silvery white with yellow stamens. Single flowers of largest size, in clusters; glossy deep green foliage. 50c each; \$5.00 per doz.

**GARDENIA.** Yellow buds opening to creamy flowers with rich golden centers. 50c each; 10 for \$4.50.



Climbing American Beauty.





## Palmer's Superb Gladiolus

The Gladiolus is one of the easiest flowers to grow—for, once planted, the only attention required is to keep the bed free from weeds. Some of the taller plants require supports. Gladiolus can now be had in almost any color, and besides being very effective planted in large clumps through the hardy border, they are very desirable as cut flowers. To have a continuous supply of these charming flowers throughout the Summer, several plantings should be made, commencing the first week in May, and then at intervals of 3 weeks until July 15th. Plant the bulbs 4 inches deep and 6 inches apart. A tablet of "STIM-U-PLANT" set one inch beneath each bulb at planting time will intensify the of both foliage and flower. If fed with a weak solution of liquid fertilizer when flowers are in bud, the blossoms will be larger and better.

### Recent Introductions of Exceptional Merit

Beautiful new varieties with very tall spikes, well placed flowers (five to seven open at a time) and of strong vigorous growth.

**EARLY SUNRISE.** Orange-salmon with yellow blotch on lower petals. 90c per doz.; \$6.00 per 100.

**ELIZABETH TABOR.** Pale pink with rose shading and dark crimson blotch. 50c per doz.; \$3.50 per 100.

**GIANT NYMPH.** Light rose pink, with creamy yellow throat. The flowers are very large and wide open, well arranged on strong stems of great length, oftentimes growing as high as 10 feet. 60c per doz.; \$4.00 per 100.

**LOS ANGELES.** A beautiful shrimp-pink with glowing orange-carmine in throat. Very tall and erect, most bulbs throwing two flowers. 70c per doz.; \$4.50 per 100.

**MEILUST.** Salmon-pink with darker blotch. Very attractive. 75c per doz.; \$5.00 per 100.

**MR. W. H. PHIPPS.** Called the "Wonder Gladiolus." Beautiful, iridescent pink. A marvelous grower, frequently displaying from 14 to 20 blossoms at one time. \$1.00 per doz.; \$7.00 per 100.

**MRS. F. C. PETERS.** Gorgeous light blue with deeper markings. Huge spike and vigorous grower. 90c per doz.; \$6.00 per 100.

**MRS. LEON DOUGLAS.** Huge old rose blossoms with slight scarlet stripe. This variety won first prize for the largest blossom in the California Gladiolus Show last year. 90c per doz.; \$6.00 per 100.

**MRS. H. E. BOTHIN.** A rich geranium-pink tinted salmon with flaming scarlet center. The flowers are beautifully ruffled and carried on strong stems. 50c per doz.; \$3.50 per 100.

**MURIEL.** True lilac, slightly darker at tips of the petals, violet blotch. 90c per doz.; \$6.00 per 100.

**ROSE PRECOSE.** Charming salmon-rose. Spikes exceptionally strong. We consider this one of the finest Gladioli ever introduced. \$1.00 per doz.; \$7.00 per 100.

**TARO.** American Beauty shade. Edges beautifully ruffled. \$1.00 per doz.; \$7.00 per 100.

### General List of Superb Modern Gladioli

**ANNA EBERIUS.** Rhodamine-purple with deep amaranth-purple blotch. 70c per doz.; \$4.50 per 100.

**BARON JOS. HULOT.** Deep glowing pansy-violet. 90c per doz.; \$6.00 per 100.

**CRIMSON GLOW.** Deep scarlet-red with deeper shading in center. Flowers are well arranged on tall straight spikes. Per doz., 60c; per 100, \$4.00.

**DR. F. E. BENNETT.** New. The color is a delightful peach red, overlaid with flame scarlet; throat speckled ruby and creamy white. The flowers are of great substance and very sturdy. \$1.25 per doz.; \$8.50 per 100.

**E. J. SHAYLOR.** Beautiful pure deep pink, ruffled edge. Per doz., 60c; per 100, \$4.00.

**EVELYN KIRTLAND.** Geranium-pink with scarlet blotch. Per doz., 60c; per 100, \$4.00.

**GOLDEN MEASURE.** Pure golden yellow. Tall straight spikes of great substance. 85c per doz.; \$5.50 per 100.

**HALLEY.** Salmon-red. An old favorite. Per doz., 50c; per 100, \$3.50.

**HERADA.** Mauve shading to pink at the throat. A very attractive and unusual color. 50c per doz.; \$3.50 per 100.

**LE MARECHAL FOCH.** Pretty pale pink. 50c per doz.; \$3.50 per 100.

**L'IMMACULEE.** Pure waxy white, many flowers open at a time. Fine for cutting. 60c per doz.; \$4.00 per 100.

**LOUISE.** Lavender with light purple blotch on lower petals. Fine orchid shade. Charming cut flower. Per doz., 60c; per 100, \$4.00.

**MRS. DR. NORTON.** La France pink, shading to pale pink throat. Creamy blotches in throat on lower petals. Per doz., 70c; per 100, \$4.50.

**MRS. FRANCIS KING.** Flame-red with lighter throat. Very tall, straight spike of strong substance. An old favorite. Per doz., 40c; per 100, \$3.00.

**MRS. FRANK PENDLETON.** Large rose-pink with bright rose-red blotch on lower petals. A very fine cutting variety. Per doz., 50c; per 100, \$3.50.

**ODIN.** Salmon-pink with darker blotch. Strong, straight spikes with large, open flowers. 60c per doz.; \$4.00 per 100.

**PURPLE GLORY.** Very large flowers carried on tall, sturdy stems. A deep velvety maroon with almost black blotches. Heavily ruffled. \$1.20 per doz.; \$8.00 per 100.

**ROSE ASH.** Corinthian-red, shading into ashes-of-roses. Per doz., 75c; per 100, \$5.00.

**PEACE.** White with Tyrian rose blotch. Very tall heavy spike. Per doz., 50c; per 100, \$3.50.

**SCARLET WONDER.** Giant mammoth flowers of a striking deep scarlet. Many blossoms at once. Per doz., 90c; per 100, \$6.00.

**SCHWABEN.** Pure yellow with purple blotch on lower petal. 50c per doz.; \$3.50 per 100.

**VIRGINIA.** Intense scarlet, slightly deeper in throat. 50c per doz.; \$3.50 per 100.

### Primulinus Gladioli

This dainty type blooms earlier than the other Gladioli. The hooded flowers are gracefully spaced on long slender stems, and the colors range from sulphur-yellow to chrome yellow, through all shades of orange-salmon and cream to pink. They are very desirable for cutting.

**ALICE TIPLADY.** Probably the best known of this type. Iridescent, soft coppery orange. A truly wonderful color. Per doz., 50c; per 100, \$3.50.

**MING TOY (New).** Buff-yellow with lighter throat. 60c per doz.; \$4.00 per 100.

**SOUVENIR.** Pure rich golden yellow. 50c per doz.; \$3.50 per 100.

**ORANGE QUEEN. (New).** A true pure apricot of very warm shade, forming large open flowers of considerable size. \$1.00 per doz.; \$7.00 per 100.

**L'INNOCENCE. (New).** A beautiful white with long, wiry stems. 75c per doz.; \$5.00 per 100.

**ORCHID GLADIOLI MIXED.** Contains all colors known to this charming class of Gladioli, predominating in the desirable salmon, orange and yellow shades. 50c per doz.; \$3.50 per 100; \$30.00 per 1000.

### EXHIBITION MIXTURE OF GLADIOLI

Finest gladiolus mixture obtainable. Extra large bulbs in an endless variety of color.  
Doz. 30c; \$2.25 per 100; \$20.00 per 1000.

## Dahlias

The following list is a selection of the finest varieties, varieties that we are sure will do well around St. Louis.

We supply only large healthy tubers, each tuber having several eyes.

**Cultural Directions.** Dahlias like an open sunny position with plenty of air circulation. Prepare the soil to a depth of 1½ feet. If heavy, the soil should be lightened with sand, humus or ashes. Use very little fertilizer in planting. Drive the stakes and lay the tubers about six inches deep and horizontally, with the eyes slightly elevated. From the first to the fifteenth of June is about the best planting time. As soon as the plant has three or four leaves, nip out the top to make the side shoots branch out. For large size flowers remove all but the most perfect bud on the stem. Until the plants come into bud use the hose and spare the hoe, and then reverse the practice. Fertilizer may be used in moderation, watering the plants freely.

C. denotes Cactus Type. H. C. denotes Hybrid Cactus Type.

### Cactus and Hybrid Cactus Dahlias

The Cactus Dahlia is like a Chrysanthemum in formation. The petals are long, narrow, pointed and twisted. The Hybrid Cactus has a large bold flower with broader petals.

**JEAN CHAZOT.** H. C. Color is a delightful golden bronze, slightly suffused with nasturtium-red. Each, 75c.

**SPRINGFIELD.** C. A rich amaranth-red. A decided improvement over Countess of Lonsdale. Each, 50c.

**DADDY BUTLER.** H. C. Rosy carmine, reverse of petals lighter. Each, 75c.

**AMBASSADOR.** Soft yellow-buff, shaded with salmon-pink. Each, 75c.

**EDNA FERBER.** One of the finest and most beautiful Dahlias. Glistening coral shading to old gold at the base. Immense flower. Each, \$2.00.

**ETENDARD DE LYON.** H. C. Rich reddish purple. Each, 50c.

**F. W. FELLOWS.** Orange flame color. Fine petaled. English Cactus type. Each, 75c.

**GEORGE WALTERS.** H. C. A rich coppery old gold, tinting to buff at the center. Each, 50c.

**PERLE DE LYON.** C. A pure white of special merit. Each, 50c.

**BRIDE'S BOUQUET.** C. A pure white. Profuse bloomer. Each, 35c.

### Decorative Dahlias

The leading type in Dahlias. The flower is very large and double to the center, with broad flat incurved and reflexed petals.

**JUDGE ALTON B. PARKER.** One of the high class varieties. The color is a beautiful golden buff. Each, 75c.

**AZALEA.** A delicate creamy yellow, outer petals tinged pink. Each, 75c.

**DELICE.** A bright luminous pink, very distinct. Each, 35c.

**DR. TEVIS.** A lovely shade of salmon-rose, suffused with old gold shading to apricot. Each, 50c.

**ELLINOR VANDERVEER.** A very large flower of a beautiful satiny rose-pink. A wonderful Dahlia. Each, 75c.

**JERSEY'S BEAUTY.** A perfect bloom of salmon-rose-pink, carried on long wiry stems high above the foliage. A beauty, indeed. Each, 75c.

**JERSEY'S BEACON.** A rich Chinese scarlet with a paler reverse, giving a two-tone effect. Each, \$1.00.

**KITTY DUNLAP.** Pure cerise-rose. Each, 75c.

**MINA BURGLE.** Color rich cardinal-red. Called the world's best red. Each, 50c.

**MRS. CARL SALBACH.** A large flower of lavender-pink with lighter tints towards the base of the petals. Each, 50c.

**MRS. ELEANOR MARTIN.** A beautiful mulberry with golden suffusion. Each, \$1.00.

Decorative Dahlia.

**BARBARA REDFERN.** Gold, overlaid with blends of copper and old rose. Deep flowers. Strong stems. Each, \$2.00.

**FLORENCE FINGER.** Dark rose-pink. Prolific bloomer and strong stems. Each, 50c.

**MRS. I. DE VER WARNER.** A glowing shade of mauve pink. Each, 75c.

**PRIDE OF CALIFORNIA.** Cardinal-red, shaded darker at the center. Each, 50c.

**ROSE FALLON.** A variety that should be included in every collection. A beautiful deep old gold of the finest type. Each, \$1.50.

**SAGAMORE.** Golden amber, shaded with orange-buff; an excellent variety. Each, 75c.

### Peony Flowered Dahlias

A newer type, resembling in shape the Japanese Peony.

**AUTUMN PERFECTION.** Beautiful shadings of orange and copper. Each, 75c.

**MADONNA.** A glistening white carried on long wiry stems. Each, 50c.

**AMITYVILLE.** A delicate shade of silvery pink with a faint touch of pale yellow on the point of each petal. Each, 50c.

**SOUV. DE MILWAUKEE.** Yellow center, shaded to deep purple with lighter tips. Each, 35c.

### Double Show or Ball Dahlias

The flowers are round, symmetrical, and perfectly formed, the petals being regular, cupped or quilled and usually full to the center. Free, continuous and early bloomers.

**GRAND EXHIBITION.** Light rose base shaded to deep purple. Very attractive. Each, 35c.

**MAUDE ADAMS.** A clear shell pink. Each, 50c.

**FLORAL PARK JEWEL (Burleigh).** Perfect ball, red and white tipped. Each, 35c.

**BLACKY.** Almost black in coloring. A worthy variety in its class. Each, 35c.

**YELLOW PRINCE.** A typical show variety of clear yellow. Each, 25c.

### Jane Cowl

One of the finest prize winning Dahlias to date. Its magnificence and exquisite beauty attracts great attention. A beautiful combination of colorings. Massive in form, with petals curled and twisted. A glistening bronzy buff and old gold blending to a deeper shade towards the center, reverse of the petals a pale flesh color. One must see this charming Dahlia to appreciate its intense loveliness. Each, \$3.00.

### Pompon Dahlias

Tiny compact growers, do not require budding. Very attractive.

**AMBER QUEEN.** Golden amber. Each, 35c.

**SUNSET GLOW.** A pretty little flower of orange and sunset red. Each, 25c.

**PRINCE CHARMING.** A charming flower with a white base, heavy purple edging. Each, 35c.

**PURE LOVE.** Deep lavender, perfectly quilled petals. Each, 50c.

**DARKEST OF ALL.** A deep maroon. A tall grower. Each, 35c.

**TOMMY KEITH.** A perfectly formed flower of deep red, tipped white. Each, 50c.

### Single Dahlias

The center is always visible, very free flowering.

**FRIGOLA.** A rich purplish red, tipped pure white. Each, 35c.

**ROSE PINK CENTURY.** A rich rose-pink, very large flower. Each, 20c.

### Dahlia Special

This is a special mixture made up for us from named varieties, many of which sell for 50c and \$1.00 each. Strong divisions, specially priced at

Each	.....	\$0.10
12	.....	1.00
100	.....	7.00



Peony, Mons. Jules Elie.

## PEONY SPECIAL

Separate Colors—Our Selection

Double Pink.....40c  
Double Red.....40c  
Double White.....40c

Three  
for \$1

## Magnificent Hardy Lilies

**LILIUM REGALE** (*Myriophyllum*). Here is a Lily that everybody can grow with ease. It will grow anywhere under almost any conditions. Regal Lilies follow the Madonna Lilies in blooming period, flowering in July. They are vigorous growers with sturdy stems 4 to 5 ft. high, carrying from 3 to 6 delicately scented blooms the first year. Flowers are pearly white with throats flushed yellow. On the outside the petals are delicately streaked with purplish brown shading to pearly white. They are perfectly hardy, surviving our severest winters, and once planted will come back larger and in increased numbers every year. Plant the bulbs 5 inches deep in any good garden soil and a treat awaits you when they bloom. **Large bulbs** (6 to 8 inches circumference) specially priced at 40c each; \$1.00 per doz.; \$30.00 per 100.

### Hardy Japanese Lilies

No garden is complete without some of these wonderful Lilies. Plant them as soon as the frost is out of the ground twice their own depth, on a base of sand, laid over on their side. Do not use fresh manure with Lilies.

**AURATUM** (*The Gold-Banded Lily of Japan*). Pure white with band of golden yellow through center of each petal, and chocolate-crimson spots. Three to six Lilies on stem. Fragrant. Blooms from July to September. **Mammoth bulbs**, 50c each; \$5.50 per doz.; \$40.00 per 100. **Large bulbs**, 35c each; \$3.50 per doz.; \$27.00 per 100.

**KRAMERI**. Wide open flowers of delicate flesh-pink tint. Very beautiful. 40c each; \$4.00 per doz.; \$28.00 per 100.

**SPECIOSUM ALBUM**. Pure white with reflexed petals. Blooms in August and September. Very satisfactory. **Mammoth bulbs**, 65c each; \$6.50 per doz.; \$50.00 per 100. **Large bulbs**, 50c each; \$5.00 per doz.; \$40.00 per 100.

**SPECIOSUM RUBRUM**. White ground heavily spotted and banded with deep pink. Reflexed petals. Sometimes as many as ten flowers on a spike. Blooms in August and September. A great favorite. **Mammoth bulbs**, 50c each; \$5.50 per doz.; \$40.00 per 100. **Large bulbs**, 35c each; \$3.50 per doz.; \$27.00 per 100.

**SPECIOSUM HENRYI**. Large, orange-yellow blooms. Reflexed petals. One of the hardest. Blooms in August and September. 85c each; \$8.50 per doz.; \$65.00 per 100.

**LILIUM HANSONI**. Reddish orange blooms, six to ten in cluster. Thick petals. Blooms June-July. 60c each; \$6.00 per doz.; \$45.00 per 100.

**TIGRINUM FLORE PLENO**. The best double Tiger Lily. 25c each; \$3.50 per doz.; \$25.00 per 100.

**TIGRINUM SPLENDENS**. The improved Tiger Lily. Orange-red, spotted with black. Blooms in August. 30c each; \$3.00 per doz.; \$20.00 per 100.

### Native Lilies

**CANADENSE**. Our native Lily. Nodding, bell-shaped flowers of reddish yellow. 25c each; \$2.50 per doz.; \$16.00 per 100.

**DAVURICUM** (*Umbellatum*). Scarlet, dotted black, resembles Philadelphiaicum, 35c each; \$3.50 per doz.; \$27.00 per 100.

**SUPERBUM** (*Turk's Cap Lily*). Flowers bright reddish orange in pyramidal cluster. 30c each; \$3.00 per doz.; \$20.00 per 100.

**ELEGANS** (*Thunbergianum*). Very hardy dwarf lilies thriving in any garden and producing large, erect flowers of various shades of yellow, orange and red. Bloom in June and July. Height 1½ to 2 ft. **Mixed colors**, 35c each; \$3.50 per doz.; \$27.00 per 100.

## Peonies for Spring Planting 1931

We begin to ship our Peony roots in April. Order now. Plant in mellow soil that has been enriched with bone meal. Plant the roots 2 feet apart and the eyes should never be more than 2 inches below the surface of the soil. Planting too deeply is the most common cause of failure. Peonies prefer a sunny situation but will grow well in semi-shade.

All roots are extra strong, one-year-old, field-grown stock, with 3 to 5 eyes each. Ratings by the American Peony Society.

### The Best Peonies for 1931

#### White

**LE CYGNE** (*The Swan*). Rating 9.9. The finest white variety. Very large perfect flower. Creamy white with greenish tinge at center. \$7.50 each.

**BARONESS SCHROEDER**. Rating 9.0. Rose type, late. White with shadings of pale pink. Very prolific and deliciously fragrant. \$1.00 each; \$10.00 per doz.

**FESTIVA MAXIMA**. Rating 9.3. Paper-white with crimson markings in the center. A great favorite. 45c each; \$5.00 per doz.

**DUCHESSE DE NEMOURS**. Rating 8.1. Sulphur-white with green reflex. A very fine cup shaped variety. 60c each; \$6.00 per doz.

**COURONNE D'OR**. Rating 8.1. Semi-rose type. Pure white, reflexing golden stamens, very good stem and flower. Wonderful cut flower. Late. 60c each; \$6.00 per doz.

#### Red

**FELIX CROUSSE**. Rating 8.4. Large bomb-shaped flower. Brilliant red. Fragrant. Blooms midseason. 75c each; \$7.50 per doz.

**KARL ROSENFELD**. Rating 8.8. A large globular semi-rose type. Very vigorous grower and free blooming. One of the best early reds. 75c each; \$7.50 per doz.

**MONS. MARTIN CAHUZAC**. Rating 8.8. Dark purple-garnet with black reflex. The darkest Peony known. Strong growing, midseason variety. \$2.50 each.

**MONSIEUR KRELLAGE**. Rating 7.7. Deep currant-red with amaranthine center. Large flat flowers. Midseason. \$1.00 each; \$10.00 per doz.

#### Pink

**THERESE**. Rating 9.8. Charming shade of satiny pink changing to lilac-white. A real Peony. Midseason. \$3.00 each.

**REINE HORTENSE**. Rating 8.7. Large, flat, compact flower of uniform light shell-pink, center flushed crimson. Very fragrant, tall grower. Midseason variety. \$1.00 each; \$10.00 per doz.

**SARAH BERNHARDT**. Rating 9.0. Late flowering, compact semi-rose type. Color mauve-rose with silver tip. Strong grower and very fragrant. \$1.25 each; \$12.00 per doz.

**WALTER FAXON**. Rating 9.2. One of the finest. Delicate rose-pink and very free-blooming. Midseason. \$4.00 each.

**MONS. JULES ELIE**. Rating 9.2. Beautiful pure pink. Broad, reflexing petals, with high pyramidal center of semi-quilled petals. Lasts well as a cut flower. Early bloomer. \$1.00 each; \$10.00 per doz.

**EDULIS SUPERBA**. A most popular variety. Bright clear pink with silvery reflex. Early bloomer and good cut flower. 50c each; \$5.00 per doz.

### Fall Bulbs

If you plant Tulips, Narcissi, Hyacinths and other Spring Blooming bulbs in the Fall, make application now for our Fall Bulb Catalog, published September 1st. You will find it very interesting.



Lilium Auratum.

## Splendid Iris

### Iris Germanica—German, Flag or Fleur-de-lis Iris

The Iris is perhaps the most satisfactory of all perennial plants. It is the easiest of all to grow, does well even in poor soil and in almost any location, but prefers sunshine. Bone meal is the best fertilizer to use with Iris.

The roots or rhizomes should be planted level with the surface of the soil, almost lying on the top and 12 inches apart.

The following selection contains only the best recent introductions. "S" denotes standards or upper petals; "F" denotes falls or lower petals.

**ALCAZAR.** S. light bluish violet; F. deep purple with bronze veined throat. 35c each; \$3.25 per doz.

**AMBASSADEUR.** S. interesting smoky velvety maroon; F. velvety purple; yellow bearded. One of the finest. Height 48 inches. 75c each; \$7.50 per doz.

**CAPRICE.** S. rosy red; F. deeper rosy red. Height 24 inches. 30c each; \$3.00 per doz.

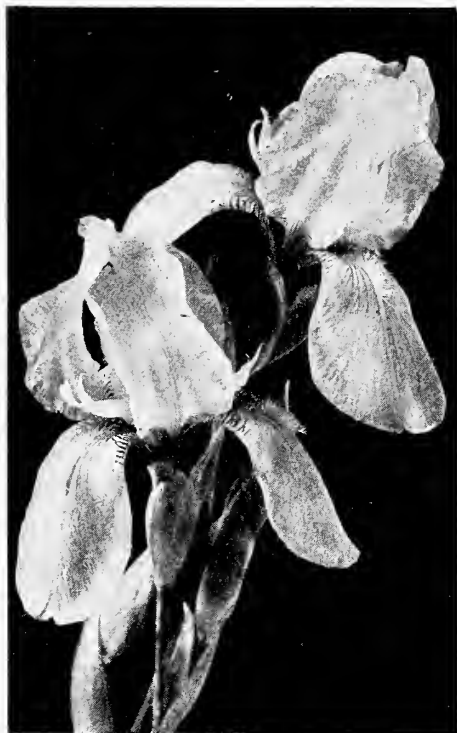
**CECIL MINTURN.** Soft Cattleya rose; beautifully waved and crinkled petals. 40c each; \$4.00 per doz.

**FAIRY.** White, delicately bordered and suffused pale blue. Height 40 inches. 25c each; \$2.50 per doz.

**LENT A. WILLIAMSON.** Considered by many the finest variety ever raised in America. S. erect lavender-violet, blended with yellow toward base. F. rich royal purple, yellow beard. Height 42 inches. 40c each; \$4.00 per doz.

**LA NEIGE.** Creamy white self, with flaring fall petals. Height 24 inches. 50c each; \$5.00 per doz.

**LORD OF JUNE.** S. lavender-blue; F. rich violet-blue. Huge flower. Height 40 inches. 90c each; \$10.00 per doz.



Mother of Pearl.

**MME. CHOBOUT.** Prussian-red with light brownish veins on pale chalcedony ground. Deliciously clover scented. Height 36 inches. 75c each; \$7.50 per doz.

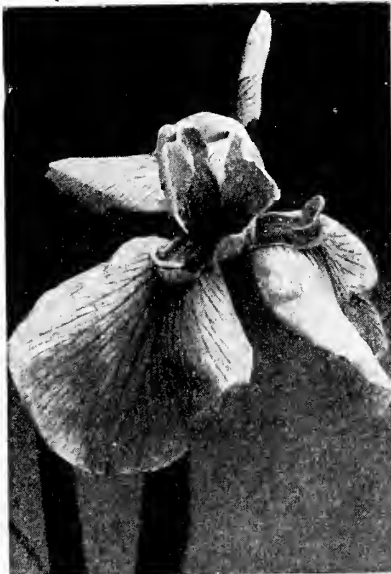
**MOTHER OF PEARL.** S. light lavender blue with creamy undertone; F. slightly deeper lavender. Flowers of perfect form on well branched stems. 90c each; \$10.00 per doz.

**PALLIDA DALMATICA.** An older variety but still one of the most popular. Clear lavender blue. Flowers extra large. Height 36 inches. 25c each; \$2.50 per doz.

**PROSPER LAUGIER.** S. light bronze-red; F. velvety ruby-purple. White beard with yellow tip. Height 36 inches. 25c each; \$2.50 per doz.

**PROSPERO.** S. pale lavender flushed yellow at base; F. deep red purple with light shading at edges. Height 48 inches. \$1.00 each; \$11.00 per doz.

**SHEKINAH.** Delicate pale yellow shading to amber in the throat with lemon colored beard. Height 36 inches. 60c each; \$6.00 per doz.



Iris Kaempferi.

**SHERWIN-WRIGHT.** Clear golden yellow self; free from any markings. 35c each; \$3.50 per doz.

### German Iris Mixed

For naturalizing. A splendid collection of mixed varieties. \$2.00 per doz.; \$15.00 per 100.

## Miscellaneous Iris

**KAEMPFERI (Japanese Iris).** White, purple, blue and pink. The Japanese varieties follow the German, blooming in June and July. Each, 50c; per doz., \$5.00.

**PUMILA ALBA (Dwarf).** This variety offers fine edging for beds and borders. Blooms early in April. Each, 20c; per doz., \$1.50.

**PUMILA VIOLACEA (Dwarf).** Violet. Blooms in April. Each, 20c; per doz., \$1.50.

**SIBIRICA (Siberian Iris).** Flowers of brilliant blue. Small inner petals long and narrow, curving together at apex. Blooms in between

German and Japanese varieties. Each, 20c; per doz., \$2.00.

**SIBIRICA ALBA (White Siberian).** Blooms in June. Each, 20c; per doz., \$2.00.

**CRISTATA (Starry Iris).** Light blue. Blooms in May and June. Each, 20c; per doz., \$2.00.

**FLORENTINA.** White, tinged with blue. Blooms early in May. Each, 20c; per doz., \$2.00.

**FLORENTINA ALBA.** Standards and falls pearly white. Faint blue cast. Fragrant. Produced early in the season. Excellent for cutting. Each, 20c; per doz., \$2.00.



Siberian Iris.





Cannas are Effective Planted in Mass Beds.

## Orchid or Dwarf Cannas

These magnificent showy Summer flowering plants are very effective planted in mass beds, in groups and informal beds or as a foundation planting. Dormant Cannas should be started in the frame during March and April, setting the plants out in late May, 18 inches apart. Roots may also be started outdoors early in May.

### Green-Foliage Cannas

#### PINK

**CITY OF PORTLAND.** A well known recommendable variety. Flowers are very large and a beautiful shade of bright pink. Height 3½ feet. 15c each; \$1.20 per doz.; \$8.50 per 100.

**VENUS.** The color, a bright rose-pink, is intensified by a border of creamy yellow. Height 4 feet. 10c each; 85c per doz.; \$5.50 per 100.

**YELLOW KING HUMBERT.** Large, golden yellow, spotted with red. Height 4½ feet. 10c each; \$1.00 per doz.; \$6.00 per 100.

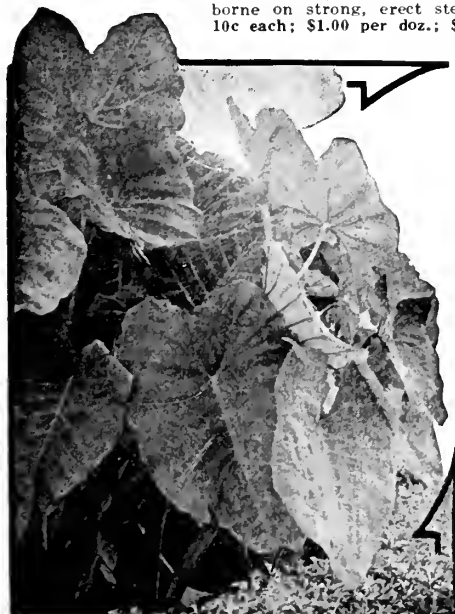
**CANARY BIRD.** Pure canary-yellow flowers with healthy foliage. Similar in habit of growth to that of The President. Height 4 feet. 10c each; \$1.00 per doz.; \$6.00 per 100.

**KARL MERCK.** Fine large flowers of a rich yellow, tinged orange, with flecks of pink becoming red in the throat. Height 4 feet. 10c each; 85c per doz.; \$5.50 per 100.

#### RED

**CRIMSON BEDDER.** Its name describes this lovely Canna. The color is an intense crimson. Wonderful bedder. Height 3½ feet. 10c each; 85c per doz.; \$5.50 per 100.

**THE PRESIDENT.** The finest of all red Cannas. Color rich glowing scarlet, immense flowers, borne on strong, erect stems. Height 4 feet. 10c each; \$1.00 per doz.; \$6.00 per 100.



Caladium.

#### WHITE

**EUREKA.** The best all around white Canna in existence. Vigorous grower, producing large flowers very freely. Height 4 feet. 10c each; \$1.00 per doz.; \$6.00 per 100.

### Bronze-Foliage Cannas

#### PINK

**SHENANDOAH.** Lovely salmon-pink borne in large clusters. The foliage is a delightful rich ruby-red. Height 4 feet. 10c each; 85c per doz.; \$5.50 per 100.

**WABASH.** One of the newer pink Cannas. A very lovely shade of pink, giving a pleasing effect in combination with its foliage. Height 4 feet. 20c each; \$2.00 per doz.; \$12.00 per 100.

#### RED

**KING HUMBERT.** The King of all Cannas. Immense trusses of brilliant orange-scarlet, held erect above the large, purple-bronze leaves. The combination of leaf and blossom is very beautiful. Height 4 feet. 10c each; \$1.00 per doz.; \$6.00 per 100.

**AMBASSADOR.** A lovely cherry-red of massive size. Very vigorous. Foliage and stalks bronze. Height 4 feet. 15c each; \$1.20 per doz.; \$8.50 per 100.

#### ORANGE

**WYOMING.** True orchid-flowered variety, with magnificent orange colored flowers. Purple foliage. Height 5 feet. 10c each; 75c per doz.; \$5.00 per 100.

### Tuberoses

Spikes of delightfully scented, waxy white flowers. Plant in the garden in May in rich soil and a sunny position and they will bloom in September. For early bloom, start bulbs in the hotbed in March or April.

**DWARF DOUBLE PEARL.** The popular dwarf double variety. Special selected bulbs, 3 for 25c; 75c per doz.; \$5.50 per 100.

**MEXICAN SINGLE EVERBLOOMING.** This fragrant variety blooms all Summer long from bulbs planted in May. They commence to bloom 8 weeks after planting. The tall flower spike carries a great number of the dainty, single white flowers which last well in water when cut. 3 for 25c; 75c per doz.; \$5.00 per 100.

### Elephant's Ear

(Caladium Esculentum)

Excellent to give your lawn a tropical effect with their wide spreading leaves. Plant early in May. Give them rich soil and a generous supply of water and they will grow to a height of from 5 to 7 feet, carrying immense green leaves 3 to 4 feet long and 1½ to 2½ feet across. Monster bulbs, 30c each; \$3.00 per doz. Large bulbs, 20c each; \$2.00 per doz. Medium bulbs, 10c each; \$1.00 per doz.

### Fancy Leaved or Imperial Caladiums

Wonderfully decorative plants for the rock garden or a semi-shaded border. The heart-shaped leaves come in wondrous color combinations of darkest crimson to light red, fantastically veined and penciled with lighter shades. For early results start them in the greenhouse or hotbed in February or March or plant outside in May.

PALMER'S EXHIBITION HYBRIDS. 25c each; \$2.50 per doz.



Tuberose, Double Pearl.

## Other Bulbs and Roots For Summer Flowers

### Giant French Poppy Anemones

These delightful spring beauties come in a wide range of bright, attractive colors in scarlet, blue, pink and white combinations. Excellent cutting flowers. Plant roots 3 inches deep, 6 inches apart, as soon as the ground is workable in April, or start in pots in the cold frame. Per doz., 90c; per 100, \$6.00.

### Hemerocallis

**FLAVA (Wild Tiger or Day Lily).** An old-fashioned, delightfully fragrant flower, still very popular, shades running from lemon-yellow to dark orange. Thrives anywhere. June. Each, 25c; per doz., \$2.50.

**FULVA (Brown Day Lily).** Grows from 4 to 5 ft. high, with trumpet-shaped flowers of a neutral color with darker shadings. August. Each, 20c; per doz., \$2.00.

**KWANSO (Double Day Lily).** Large, double-flowered, with rich, golden bronze flowers. Each, 25c; per doz., \$2.50.

### Montbretias

An excellent cut flower that is not nearly so well known as it should be. Best described as like a miniature Gladiolus, with very slender stems and foliage. The flowers, borne on 2-ft. stems, are gracefully carried in small spikes, like Gladiolus, and come in the most desirable shades of red, scarlet, orange and yellow. Plant bulbs early in May, 3 inches deep and 6 inches apart. Try some this year and you will be delighted with their charm. Mixed, per doz., 75c; per 100, \$6.00.

### Lily-of-the-Valley Clumps

For outdoor planting. Each clump contains from 18 to 24 pups to bloom this spring. Plant in April three inches deep and eighteen inches apart in moist, shady spot where they will spread rapidly and delight you with their fragrant flowers every year. Each, 60c; per doz., \$6.00; per 100, \$48.00.

### Cinnamon Vine

Hardy rapid growing climber with small, white flowers with spicy cinnamon-like odor. Attains a height of 15 to 25 ft. when established. Each, 10c; per doz., \$1.00.



Hemerocallis.

### Ranunculus

**GIANT DOUBLE FRENCH**  
Flower resembles a giant double Buttercup; on long stems for cutting. In lovely shades of bronze, orange, yellow and brown. Treat same way as Anemones. Per doz., 90c; per 100, \$6.00.

### Ismene Calathina

(Peruvian Daffodil or Pancratium Lily)

Beautiful, large, fragrant, Amaryllis-like, pearly white flowers, carried in clusters on a firm stem. This wonderful plant will succeed almost anywhere. Plant the bulbs 4 inches deep, in May, and they will bloom in July. Each, 20c; per doz., \$2.25.



Ranunculus.

### Hardy Amaryllis

(Halli or Lycoris Squamigera)

MAGIC LILY OF JAPAN

Bulbs produce in early spring attractive green foliage which grows until July, when it ripens off and disappears. One not familiar with its habits would think the bulb had died but about a month later, as if by magic, the flower-stalks spring from the ground to a height of 2 to 3 ft., developing 8 to 12 large and beautiful lily-shaped flowers 3 to 4 inches across, of a delicate lilac-pink, shaded with clear blue. The bulb is perfectly hardy, and will bloom for years. Plant to a depth of 4 inches anywhere in the border or other partially shaded position. \$1.25 each; doz., \$8.00.

### Bleeding Hearts

(Dicentra Spectabilis)

Flowers heart-shaped, in long drooping racemes of rose-crimson; fernlike foliage. Grows best in shady location and blooms in April and May. 1½ ft. tall. Strong 2-year-old roots, 50c each; \$5.50 per doz.

### Calla Elliottiana

(Golden Yellow Calla)

Large flowers of rich golden yellow, contrasting with the decorative spotted foliage. This glorious lily will grow well outdoors in a shady, moist location. Plant the bulbs in May, 4 inches deep and 12 inches apart. It is also excellent for pot culture indoors. Monster bulbs, each, 50c; \$5.50 per doz. Large bulbs, each, 30c; \$3.00 per doz.



Golden Yellow Calla.

### Hyacinthus Candicans

(Summer Hyacinth)

Very fine planted among Gladioli. Spikes 4 to 5 ft. high, each bearing from 20 to 30 white bell-shaped flowers. Plant bulbs in May, 5 inches deep, 8 inches apart. Each, 15c; per doz., \$1.50; \$10.00 per 100.

### Tuberous-Rooted Begonias

Superb showy plants for bedding in shady locations. They carry large, waxy blossoms in bright colors, and will live up a shady spot where nothing else will grow well. Start the tubers in pots in the greenhouse or hotbed in February or March and set outside in May. Begonias prefer a light, peaty soil. Tubers may also be planted outdoors in May when they will bloom in August. Large bulbs, each, 25c; \$2.50 per doz.

	Each	Doz.
Giant Single Flowering. Rose-pink,		
salmon-pink, white, yellow, scarlet..	\$0.25	\$2.50
Giant Double Flowering. Rose-pink,		
salmon-pink, white, yellow, scarlet..	.25	2.50

### Madeira or Mexican Vine

(Climbing Mignonette)

Just the thing for trellises and arbors. This rapid growing vine has thick, glossy foliage and long hanging stems of feathery, fragrant white flowers. Strong tubers, 30c per lb.

### The Book of Bulbs

By F. F. Rockwell. Pictures and text take you into the garden and show the almost limitless possibilities that bulbs offer. Types are discussed and varieties appraised for their suitability to different uses. Complete information on growing and propagation. Ill. 272 pages, \$3.00.



Tuberous-Rooted Begonia.

# Hardy Ornamental Shrubs

Our hardy shrubs are ready for shipment from March 1st to April 15th, and in the Fall from October 15th to December 1st. They are all thoroughly acclimated stock, with a strong well developed root system, and cannot fail to give satisfaction.

We include in our list only those varieties most in demand. Should you require any kind not included here, write us for prices.

SHRUBS SHIPPED BY EXPRESS ONLY. NO SHRUBS SENT C. O. D.

## Althea - Hibiscus; Rose of Sharon

Free-growing shrubs of very easy cultivation, flowering in August and September, a time when nearly all other trees and shrubs are out of bloom. Attains a height of 6 to 12 ft. Single Red, White, Pink. Each, 40c; per doz., \$3.50.

## Amygdalus - Flowering Almond

Very heavy with double, roselike flowers, which fill the branches until they bend with the weight of the blooms. Blooms in May and June. Grows to a height of 6 to 8 ft. White or Pink. Each, 65c; per doz., \$6.00.

## Berberis - Barberry

Forsythia Blooms  
Early.

THUNBERGI (Japanese Barberry). A species from Japan, with round, drooping habit, of a fine brilliant green in Summer and red berries in the Fall. The growing shoots, always a lighter shade, take on, from Autumn until December, the most glowing colors. They make a dense, low hedge, in almost any situation, which will stand any amount of shearing, and are very hardy. 18 to 24 in., each, 35c; per 10, \$3.00; per 100, \$27.50.

ATROPURPUREA (New Red-Leaved Barberry). Same as above, except that the foliage is a deep bronze-red. This variety colors even more beautifully than Thunbergi in the Autumn, and is very effective when used among other shrubs, to give contrasting color. Strong, select plants, each, 50c; per 10, \$4.50.

## Buddleia

VARIABILIS VEITCHI (Butterfly Bush). One of the most admired shrubs. Very bushy and grows quickly. Bloom spikes appear from July onwards all through the Summer, radiating a delightful perfume. Freezes down in Winter but grows again rapidly in the Spring. Attains a height of 4 to 6 feet. 2-year, field-grown, each, 40c; per 10, \$3.50.

## Cornus

SIBIRICA (Red Siberian Dogwood). Free-growing, 6 to 10 ft. tall and very hardy. Bears a profusion of whitish blue berries in early Fall, making them distinctly ornamental after the white flowers are gone. The stems are red, which makes it a valuable plant for Winter effect. They grow well in shady locations. Attains height of from 6 to 10 ft. Each, 50c; per 10, \$4.50.

LUTEA (Yellow-Twigged Dogwood). Bright yellow bark in Winter, particularly effective in shrubberies planted with the Red-Branched Dogwood. Grows from 6 to 10 ft. high. Each, 60c; per 10, \$5.50.

## Cydonia

JAPONICA (Japan Quince or Fire Bush). This fine old shrub is completely covered with dazzling scarlet flowers early in the Spring. Leaves are dark green and glossy. Grows 3 to 6 ft. high. Each, 60c; per 10, \$5.50.

## Deutzia

They vary greatly in height and habit but all have dainty bell or tassel-shaped flowers borne thickly in wreaths along their branches in June.

DEUTZIA CRENATA (Pride of Rochester). Grows 6 to 8 ft. high and blooms in May before the others. Flowers large and free, double white. Each, 45c; per 10, \$4.00.

DEUTZIA CRENATA ROSEA PLENA. Double white tinged rose. Each, 45c; per 10, \$4.00.

DEUTZIA GRACILIS. Dwarf growing, dense, bushy, its drooping branches wreathed with pure white flowers in May. Grows 2 to 3 ft. high. Each, 45c; per 10, \$4.00.

## Forsythia

FORTUNEI—GOLDEN BELL. This splendid shrub grows from 8 to 10 ft. high in good soil. Good for shady locations. The flowers, glistening masses of gold, appear very early in Spring before the leaves. Each, 40c; per 10, \$3.50.

INTERMEDIA (Border Forsythia). Blooms so early that it is frequently covered with its bright, golden flowers when the ground is covered with snow. Attains a height of from 8 to 10 ft. Each, 40c; per 10, \$3.50.

SUSPENSa (Weeping Golden Bell). Handsome, drooping habit with slender branches strung with bright rosettes of brilliant yellow blooms. Fine for covering rocks and slopes. Each, 50c; per 10, \$5.50.

## Hydrangea

ARBORESCENS GRANDIFLORA (Snowball Hydrangea). This superb new Hydrangea is absolutely hardy and moreover, of easy culture. Grows well in shady places and is an exceedingly easy bloomer. Color is pure white and the flower is usually retained for four or five weeks. Blooms first season. Should be cut back severely in the Spring. Height from 6 to 8 ft. Each, 50c; per 10, \$4.50.

PANICULATA GRANDIFLORA. Its massive pinkish white flowers in panicles from 8 to 12 inches long, bend the branches with their weight, and the color changes finally to pink and a bronzy green. Prefers a semi-shaded location. Each, 60c; per 10, \$5.50.

## Kolkwitzia - Beauty Bush

An unusually attractive and showy shrub closely related to Weigela and Abelia. Prolific bloomer. Blush pink flowers resembling Weigela blooms. Each, \$1.00; per 10, \$9.00.

## Ligustrum - Privet

AMURENSE (Amoor River Privet—North). The Chinese variety, harder than the others, growing 8 or 9 ft. high, with dark green leaves which persist through the Winter. Evergreen in the South. Bears white flowers in June, which are followed by black berries. Hardy in all climates.

	Each	10	100
3 to 4 ft. ....	\$0.35	\$2.50	\$20.00
5 to 6 ft. ....	.40	3.50	30.00

OVALIFOLIUM (California Privet). A species of unusual beauty that has become the most popular of all hedge plants. Its shining leaves give it value for porch and terrace decoration when grown in standard form. Can be sheared to any desirable shape.

	10	100
24 inches .....	\$0.60	\$4.50

## Lonicera - Bush Honeysuckle

FRAGRANTISSIMA (Fragrant Honeysuckle). A spreading shrub with deep green foliage and very fragrant small flowers, which appear before the leaves. Foliage almost evergreen; most desirable. Will succeed in semi-shade. Grows 8 to 12 ft. Each, 50c; per 10, \$4.50.

TATARICA ALBA (White Tartarian Honeysuckle). Forms a high bush with creamy white, fragrant flowers that bloom in May and June. Attains height of from 8 to 10 ft. Each, 50c; per 10, \$4.50.

TATARICA (Red Tartarian Honeysuckle). Similar to the White Tartarian but with deep rose-pink flowers in early Summer. Each, 50c; per 10, \$4.50.

MORROWI. A fine variety from Japan. Valuable for its handsome red fruit which follows the fragrant white blossoms. Vigorous grower and fine for heavy shrub planting. Grows 4 to 6 ft. Each, 50c; per 10, \$4.50.

## Philadelphus - Mock Orange.

CORONARIUS (Mock Orange or Sweet Syringa). A well known shrub with pure white, sweetly scented flowers, blooming in May. One of the first to bloom. Grows 5 to 7 ft. tall. Each, 50c; per 10, \$4.50.

VIRGINALIS (Large Flowering Syringa). Neat habit—the finest of this family. Fragrant, white, blooms 2 inches in diameter. May and June. Each, 75c; per 10, \$7.00.

## Miscellaneous Roses

ROSA HUGONIS, New Yellow Chinese Briar. Has clear healthy foliage of the Briar type. The flowers range from deep gold to canary-yellow. When fully developed it forms a bush 6 ft. tall. 2-year-old plants, each, 75c; per 10, \$6.50.

ROSA RUGOSA (Japanese Rose). The foliage is lustrous dark green. Purplish red flowers, measuring 3 inches in diameter, are borne in clusters, which are succeeded by persistent bright red fruits. 2-yr., each, 60c; per 10, \$5.50.

ROSE, PERSIAN YELLOW. This is the old-fashioned yellow rose which is very hardy and covered with yellow flowers in the Spring. 2-year, each, 75c; per 10, \$6.50.



Spirea Van Houttei is a Fountain of White Bloom in Spring—Justly Popular.

## Spirea

**VAN HOUTTE** (Bridal Wreath). One of the most charming and beautiful of the Spireas. Has white flowers in clusters about an inch in diameter. Grows from 4 to 6 feet tall. Large, each, 40c; per 10, \$3.50.

**BUMALDA ANTHONY WATERER**. Low compact growing shrub, covered in July with flat heads of rosy crimson flowers. If kept cut they will bloom until frost. Height 1½ to 3 feet. Each, 50c; per 10, \$4.50.

**BILLIARDI** (Meadow Sweet). A narrow dense shrub, 6 ft. high with tall bright pink spikes of flowers. From June until August. Each, 50c; per 10, \$4.50.

## Snowberry

**SYMPHORICARPOS RACEMOSUS**. A well known shrub with small pink flowers followed by white berries in clusters which remain on the plant throughout part of the Winter. Attains a height of 3 to 5 feet. Each, 40c; per 10, \$3.50.

## Lilac - Syringa

**VULGARIS** (Common Purple Lilac). Grows upright, sometimes from 15 to 20 ft. tall, with abundant dark green foliage and the familiar fragrant purple flowers in May. One of the best shrubs for a tall screen or for the background of shrub plantings. Each, 50c; per 10, \$4.50.

**VULGARIS ALBA** (Common White Lilac). Same as above but flowers are of a beautiful creamy white. Each, 80c; per 10, \$7.50.

## French Varieties of Lilac

The following list of varieties are grafted plants and are certain to bloom, as the grafts are taken from plants that have bloomed.

**CASIMER-PERIER**. Double, cream colored flowers, deliciously scented. Fine for cutting. Each, \$1.00.

**MARIE LEGRAYE**. Single. white. Panicles large. One of the finest whites. Each, \$1.00.

**MICHAEL BUCHNER**. Double flowers of pale blue. Each, \$1.00.

**MME. LEMOINE**. Double white. Each, \$1.00.

**PRESIDENT GREVY**. Double flowers of dark blue and very beautiful. Each, \$1.00.

**SOUVENIR DE LUDWIG SPAETH**. Long panicles. Large individual flowers. Color of flowers, dark purplish red. Each, \$1.00.

## Tamarix - Tamarisk

**AFRICANA**. Bright pink flowers in slender racemes in April and May. Shrub is tall and is very showy with its reddish bark and fernlike foliage. Grows 10 to 15 feet tall. Each, 45c; per 10, \$4.00.

## Viburnum - Snowball

**DENTATUM** (Arrow Wood). Flowers greenish white. Foliage turning to red and rich purple in the Fall. Grows 8 to 10 ft. tall. Each, 60c; per 10, \$5.50.

**PLICATUM** (Japanese Snowball). Of moderate growth, blooms with handsome globular heads of pure white flowers early in June. Surpasses the common snowball in several respects. Its habit is better, foliage much handsomer, flowers whiter and more delicate. Each, 60c; per 10, \$5.50.

**OPULUS** (High Bush Cranberry). Flowers white in June, followed by red berries in the Autumn. Each, 90c; per 10, \$8.50.

## Weigela - Diervilla

**AMABILIS** (Rose Weigela). A beautiful, distinct pink flowering sort of this valuable shrub. Blooms in June and July. Grows about 6 ft. tall. Each, 50c; per 10, \$4.50.

**CANDIDA** (White). Flowers are pure white and produced in great quantities in June and all through the Summer. Height about 4 to 6 ft. Each, 50c; per 10, \$4.50.

**EVA RATHKE** (Crimson). Flowers a brilliant crimson. Blooms in June. Bush is of spreading habit and grows from 3 to 4 ft. in height. Each, 50c; per 10, \$4.50.

EVERGREENS. SHADE TREES. FRUIT TREES. WRITE FOR OUR SPECIAL PRICES.



Boston Ivy Clings Tightly to Masonry.

## Hardy Vines and Creepers

SHIPPED BY EXPRESS ONLY. NO PLANTS SHIPPED C. O. D.

**AMPELOPSIS VEITCHI** (Boston Ivy). Of Japanese origin. Entirely hardy with foliage turning brilliant red in Autumn. It clings tightly to walls and is unsurpassed for covering buildings, fences, etc. Each, 45c; per 10, \$4.00.

**AMPELOPSIS QUINQUEFOLIA** (Virginia Creeper). Rich crimson in Autumn. A very rapid grower. One of the finest vines for covering trunks of trees, etc. Each, 35c; per 10, \$3.00.

**ARISTOLOCHIA SIPHO** (Dutchman's Pipe). Very hardy rapid growing vine, with large, dark green heart shaped leaves and brownish green pipe-shaped flowers. Each, 75c; per 10, \$7.00.

**BIGNONIA RADICANS** (American Climbing Trumpet Vine). A splendid, hardy climbing plant with large trumpet-shaped scarlet flowers in August. Each, 50c; per 10, \$4.00.

**CLEMATIS PANICULATA**. Very rapid growth, quickly covering trellises and arbors with handsome foliage and clusters of star-shaped white flowers borne in great profusion with most wonderful fragrance. Flowers appear in September. Each, 40c; per 10, \$3.50.

**CLEMATIS JACKMANI**. Large, intense, violet-purple star-shaped flowers, remarkable for their velvety richness. An abundant and successive bloomer. Each, \$1.00; per 10, \$9.00.

**CLEMATIS HENRYI**. Large white. Each, \$1.00; per 10, \$9.00.

**CLEMATIS MAD. ED. ANDRE**. Large crimson red. Each, \$1.00; per 10, \$9.00.

**CLEMATIS RAMONA**. Beautiful clear sky-blue color. Each, \$1.00; per 10, \$9.00.

**EUONYMUS RADICANS** (Evergreen Bittersweet). Trailing vine, small glassy foliage. Fine for buildings and as a ground cover. Clings to rocks and walls. Each, 60c; per 10, \$5.50.

**LONICERA JAPONICA HALLIANA** (Hall's Japan Honeysuckle). A strong, fragrant vigorous, evergreen sort, with pure white flowers, changing to yellow. Rapid climber. Each, 50c; per 10, \$4.00.

**POLYGONUM AUBERTI** (Silver Lace Vine). Clusters of small white flowers. Very hardy—will grow anywhere. 2 year. Each, 75c; per 10, \$7.00.

**PUERARIA THUNBERGIANA** (Kudzu Vine). This is the fastest growing vine; has large foliage and clusters of lavender pea-shaped flowers. 2-year. Each, 30c; per 10, \$2.50.

**WISTERIA SINENSIS** (Chinese Purple Wisteria). Strong climber. Flowers lilac-purple, borne in racemes from 4 to 6 inches long.

	Each	10
2-year, grafted .....	\$0.65	\$ 6.00
5-year, grafted .....	1.25	10.00

**WISTERIA SINENSIS ALBA** (Chinese White Wisteria). Flowers of this variety are pure white and very beautiful. Each, 80c; per 10, \$7.50.



Write for  
Complete  
Catalog

# Planet Jr. Garden Tools

The Best  
Garden Tools  
in the World

## No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

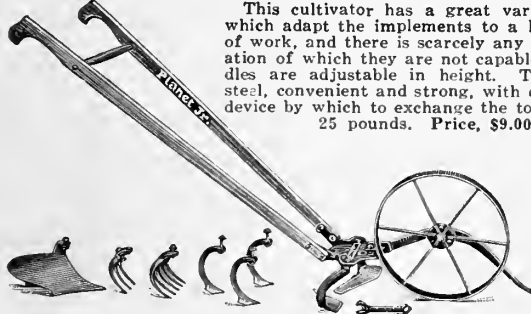
This tool combines in a single convenient implement, a capital hill-dropping seeder, a continuous row seeder, single wheel hoe, an excellent furrower, a capital wheel cultivator and a rapid and efficient wheel garden plow. In a word, with a great variety of tools, excellent in design and quality, it is without an equal for easy adjustment, lightness, strength and beauty. It is a practical, every-day time, labor and money saver. Holds  $2\frac{1}{2}$  quarts of seed. Weight, 49 pounds. Price, complete, \$18.00; as a seeder only, \$14.25.



No. 3 Hill and Drill Seeder, \$17.50.

## No. 16 Planet Jr. Single Wheel Hoe, Cultivator, Rake and Plow

This cultivator has a great variety of tools which adapt the implements to a large variety of work, and there is scarcely any garden operation of which they are not capable. The handles are adjustable in height. The frame is steel, convenient and strong, with quick change device by which to exchange the tools. Weight 25 pounds. Price, \$9.00.



## No. 17 Single Wheel Hoe

Identical with No. 16, but does not include rakes and leaf lifter. Price, \$7.75.

## No. 12 Double Wheel Hoe, Cultivator and Plow

The Planet Jr. Double Wheel Hoes are the greatest cultivating tools in the world for the onion grower, and also garden crops from drilled seed. They do more and do it better and easier than can be done in any other way. The frame is steel.

The plows are invaluable; use them with points together for opening furrows for manure, seeds, etc., then exchange sides for covering. Use them also for plowing away from or toward the crop, both sides at once.

The cultivating teeth for deep or shallow work, and for marking out.

Leaf lifters enable fine work to be done when plants are large or leaves are flat on the ground. Weight 33 pounds. Price, \$10.75.



## No. 11 Double Wheel Hoe, Cultivator and Plow

It is similar to No. 12, but includes  $4\frac{1}{2}$ -inch hoes and rakes, which make an added improvement. Price, \$13.75.

## No. 13 Double Wheel Hoe

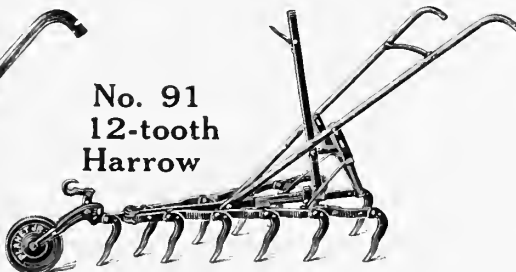
This tool has 6-inch hoes only, these being the tools that are most generally useful. The hoes are the most valuable of all the wheel hoe attachments; are oil tempered and polished. Weight 27 lbs. Price, \$8.00.



## Star Pulverizer, Cultivator and Weeder



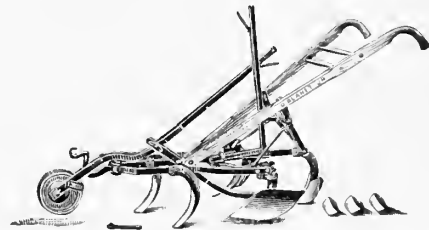
## No. 91 12-tooth Harrow



## Star Pulverizer, Cultivator and Weeder

Used for pulverizing the seed bed in preparation for planting, and for keeping down weeds after crops are up. A wonderful tool for small gardens, flower beds, borders, and for cultivating around trees and shrubs. Price, \$3.25.

## No. 8 Horse Hoe and Cultivator



## No. 91 Twelve-Tooth Harrow

Works closely and thoroughly, deep or shallow and is well liked by hundreds of farmers and gardeners. Strawberry growers can use this tool effectively without throwing earth on the plants. Price, \$13.75; complete with pulverizer, \$18.00.

## No. 8 Horse Hoe and Cultivator

Having no spokes it does not clog with stones, sod, corn stalks, etc. Closes to 10 inches and opens to 25 inches. This tool is built like a battleship and will last a life-time. Price, \$17.50.

## Hudson Perfection No. 110



Capacity 4 gallons

A high pressure compressed air sprayer which can be adapted to many uses. In addition to its principal use for spraying orchards, vineyards, greenhouses and truck gardens, it is also adapted for applying whitewash, cold-water paints, floor oils, etc.

The tank, measuring 7½ inches in diameter and 20 inches high, is made of heavy galvanized or brass sheets, riveted and soldered. Capacity 4 gallons. Tested under actual working conditions before leaving factory.

The pump cylinder is made of seamless brass tubing 1¼ inches in diameter and 15½ inches long, combining simplicity, strength and service. Comes equipped complete with 24 inches of 5-ply special spray hose, 1-ft. brass extension rod, and automatic shut-off nozzle that works perfectly under any pressure. The angle nozzle enables the operator to easily reach low-lying plants, under surface of leaves, and all parts of trees, shrubs and plants. Shipping weight 12 lbs.

No. 110-G (galvanized), \$6.50; 1-ft. brass extension rod, 50c.

No. 110-B (brass), \$9.75; 2-ft. brass extension rod, 65c.

## Hudson Junior

Capacity 2½ gallons.

Made for the gardener who needs a high pressure sprayer of small capacity. Particularly adapted for the back-yard garden, small truck farm and greenhouse. Patterned after the Hudson Perfection, it is a well made, substantial sprayer tested under actual working conditions at the factory.

Tank measures 6½ inches in diameter and 17 inches high and is made of first quality galvanized or brass sheets. The pump is seamless brass tubing 1¼ inches in diameter and 15½ inches long, completely equipped with 24 inches of heavy, 5-ply hose, 1-ft. brass extension rod and "Perfection" automatic shut-off nozzle. Shipping weight 9 pounds.

No. 140-G. (Galvanized), \$4.65. 1-ft. brass extension rod, 50c.

No. 140-B. (Brass), \$7.00. 2-ft. brass extension rod, 65c.

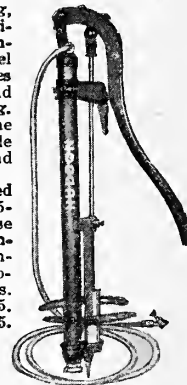


## Hudson Ideal Barrel Pump No. 4A

Will meet all requirements. Powerful, light and durable. Maintains a continuous working pressure of 200 pounds. Has solid brass

cylinder tubing, 1¼ inches in diameter and 6 inches long, in a steel chamber 2 inches in diameter and 30 inches long. This is one of the best pumps made and we recommend it highly.

Comes equipped with 6 feet of 5-ply ¾-inch hose and 4-ft. extension rod with angle nozzle. Shipping weight 33 lbs. Complete, \$13.75. Pump only, \$9.75.

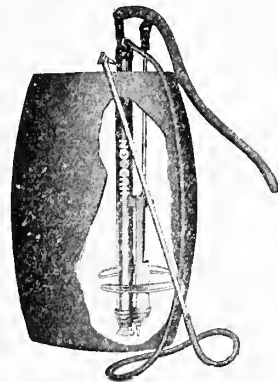


## No. 122 Bucket Pump



An efficient sprayer for fruit trees, gardens and shrubbery; for whitewash, disinfectant and insecticides. Double acting and continuous, developing 150 lbs. pressure. A convenient portable outfit that can be used with a bucket or tank. All brass except handle and footrest. Nozzle discs are reversible or removable, producing a spray from the very finest to a solid stream. Cylinder 1¼ inches in diameter, 19 inches long with seamless brass

tubing. Comes equipped with 3 feet of ¾-inch hose, 12-inch extension and fog nozzle. One of the most serviceable pumps on the market. Shipping weight 9 pounds. \$4.00.

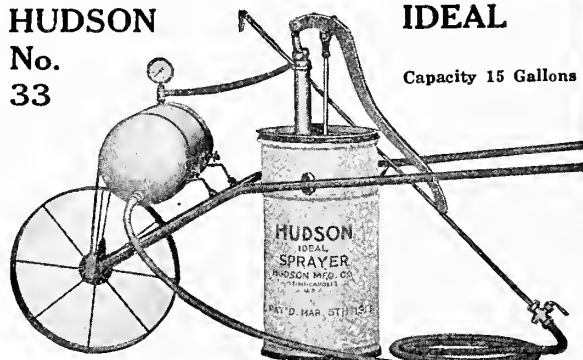


## HUDSON

No. 33

## IDEAL

Capacity 15 Gallons



The Hudson Ideal outfit is equipped with a reserve air pressure of 270 lbs. This enables the operator to stop pumping and spray several minutes before further pumping is necessary. One man can operate it alone.

Equipped with our regular No. 4 Barrel Pump. Tank made of heavy copper-bearing galvanized or brass sheets, reinforced at top and bottom with channel iron hoops. Capacity 15 gallons. Air tank tested at factory under 275 lbs. pressure, fitted with gauge reading to 200 pounds. Wheels 18 inches in diameter. 2½ inch tire, light, strong and rigid.

Discharge equipment includes 6 ft. of ¾-inch heavy spray hose, 4 ft. ¼-inch iron pipe extension, Ideal angle nozzle and leakless shutoff. Shipping weight 105 pounds.

No. 33. Ideal, with galvanized tank ..... \$35.75  
No. 33-B. Ideal, with brass tank ..... 44.75

## 4B Barrel Outfit

This comes equipped with our regular No. 4 Barrel Pump fastened in top of barrel with malleable clamps. Easily removed for cleaning.

The tank is a welded steel Barrel which will not warp, crack or check, fitted with top cover to prevent spilling. Capacity 50 gallons.

Discharge equipment includes 6 ft. of ¾-inch, 5-ply spray hose; 4-ft. extension rod and Ideal angle spray nozzle. Shipping weight 128 pounds. Each, \$31.00.

The tank is heavy galvanized steel sheet reinforced by heavy steel wire rolled into the top edge and beading through the body. Capacity 12½ gallons. Wheels 16 inches in diameter, with 1¼-inch rim; strong and sturdy.

Completely equipped with 5 feet of heavy 5-ply ¾-inch hose, 2-ft. brass extension and Ideal angle spray nozzle. Shipping weight 42 lbs. Complete, \$15.60.



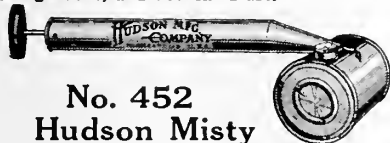
## Hudson Sunshine Sprayer No. 36

(Wheelbarrow Type)  
Capacity 12½ gallons.

Designed for spraying greenhouses, nurseries, small orchards, vineyards, trees and flowers. Also for spraying whitewash and disinfectants in barns and poultry houses. Can be transported through narrow openings and in close quarters and on hillsides and uneven ground without tipping.

## Liquid Hand Sprayers

We have an assortment of inexpensive, single acting hand sprayers that will handle all of the regular spraying materials rapidly and effectively. Made of heavy tin. Very handy for small gardens, and household use.



**No. 452**  
**Hudson Misty**

Capacity 1 quart.

Of sturdy appearance and construction, which combines strength, simplicity and neatness. Heavy tin, 50c. Brass, 65c.

## Hudson Midget No. 202

Capacity ¾ pint.

Like the Hudson Misty but smaller. A small well made sprayer for general purposes, especially suited for household use. Will handle all kinds of liquids. Made of first quality tin carefully tested. Each, 30c.

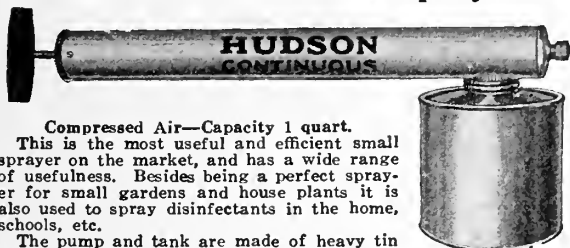


**No. 303**  
**Hudson Fog**

Capacity ¾ pint.

The perfect vaporizer. A handy sprayer for fly oils and wherever a fine mist is desired. Each, 35c.

## Hudson Continuous Sprayer



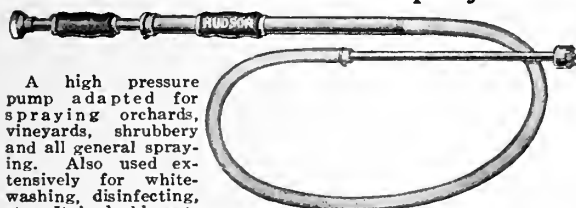
Compressed Air—Capacity 1 quart.

This is the most useful and efficient small sprayer on the market, and has a wide range of usefulness. Besides being a perfect sprayer for small gardens and house plants it is also used to spray disinfectants in the home, schools, etc.

The pump and tank are made of heavy tin or brass, lock seamed and thoroughly soldered throughout. This is a well made sprayer that will last a long time and prove very useful.

No. 427. Galvanized .....\$0.85  
No. 427-B. Brass ..... 1.75

## Hudson Trombone Sprayer



A high pressure pump adapted for spraying orchards, vineyards, shrubbery and all general spraying. Also used extensively for white-washing, disinfecting, etc. It is double acting and continuous, maintaining a steady discharge with little effort on the part of the operator. Can accommodate 30 feet of hose and will spray any tree with the use of a platform. Will throw a steady stream 60 feet high. Cylinder, air chamber and all parts made of brass. Equipped with 3 ft. of ¾-inch hose, intake pipe and strainer, weighted so as to remain in barrel or bucket during use. Fog nozzle with reversible disc. Shipping weight 3 pounds. No. 123 Trombone Sprayer, \$4.00.

## Extension Spray Rods

No. 171. 1-ft. iron rod..\$0.35 No. 173. 3-ft. iron rod..\$0.50  
No. 171B. 1-ft. brass rod..50 No. 173B. 3-ft. brass rod..75  
No. 172. 2-ft. iron rod..40 No. 174. 4-ft. iron rod..60  
No. 172B. 2-ft. brass rod..65 No. 174B. 4-ft. brass rod..90

## Heavy Spray Hose

Standard 5-ply, ¾-inch high pressure. 20c foot.

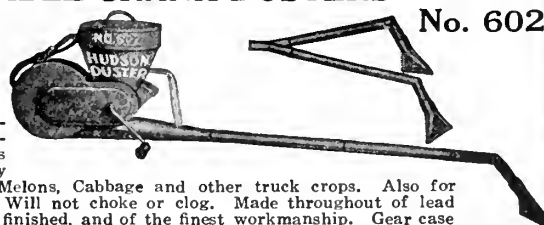
## RELIABLE CRANK DUSTERS

### Hudson Crank Duster

TRUCK GROWERS SPECIAL

Capacity 2 to 5 pounds.

Develops an unusually powerful air blast. Adapted for handling all kinds of insecticides and fungicides, and is widely used for Potatoes, Tomatoes, Melons, Cabbage and other truck crops. Also for vines, shrubs and small trees. Will not choke or clog. Made throughout of lead coated steel, neatly painted and finished, and of the finest workmanship. Gear case is oil and dust proof, yet easily accessible. Discharge equipment consists of 2 nozzles, 2 elbows, a "Y" connection and four 15-inch tubes. Can be used for dusting 2 rows or 1 row and above and below plants. This is a real outfit for Market Gardeners. Weight 14½ pounds. Complete, \$9.50. By mail, \$10.00.



**No. 602**

### Hudson Crank Duster No. 604

Similar in construction to the No. 602 described above but of larger capacity; holds 5 to 10 pounds, depending on the powder used. Same discharge equipment. Complete, \$13.50. By mail, \$13.75.

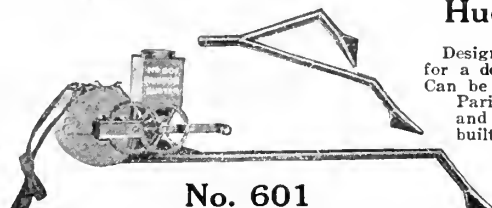
### Hudson Crank Duster

Capacity 1 to 3 pounds.

Designed to meet the ever increasing demand for a dependable duster at a reasonable price. Can be used for all classes of work, handling Paris Green, arsenate of lead, lime sulphur and other dusts very efficiently. Sturdily built of heavy tin plate. Does not clog.

Powder reservoir holds more than one quart and is easily filled through 3-inch top opening. Can be set to regulate volume of discharge.

Equipped with 3 14-inch tubes, 2 elbows, 1 "Y" or 2-way connection and one adjustable carry strap. Shipping weight 8 lbs. Complete, \$8.00. By mail, \$8.50.



**No. 601**

## Hudson Major Duster



Cyanogas Gun

A dependable duster for the home garden and small truck plats. Handles Paris Green, arsenate of lead and similar poison very efficiently. The pump is 2¾ inches in diameter and 9 inches long; powder chamber 5 inches long. Discharges a uniform volume of powder without clogging. Equipped with two 12-inch heavy tin extension pipes, enabling operator to reach low growing plants easily. A 12-inch piece of rubber hose also comes with the outfit for using Cyanogas to kill moles, gophers, rats, etc., making it possible to reach their underground passages. Each, \$1.25.

## Hudson Cadet Duster

Useful for dusting all insect powders. Because of its size and efficiency it is a favorite with housewives for applying roach and various bug powders. Made of heavy tin and well constructed. Each, 50c.



## Bamboo Spray Pole



Recommended for all work where an extension rod longer than 4 feet is necessary. Has one piece brass lining locked to the bamboo pole at both ends. Fitted with adjustable brass drip shield and stop cock. No. 42, 8-ft. pole with stop cock, \$4.00. No. 44, 10-ft. pole with stop cock, \$4.50. No. 46, 12-ft. pole with stop cock, \$5.00.

## Hudson Spray Nozzles

No. 176. Shut off valve and nozzle.....\$1.50  
No. 166. Straight fog nozzle.....75  
No. 168. Angle fog nozzle.....75  
No. 164. Double fog nozzle.....2.00  
No. 60. Straight Ideal nozzle.....1.00  
No. 61. Angle Ideal nozzle.....1.00  
No. 64. Double Ideal nozzle.....2.50  
No. 71. Bordeaux nozzle.....1.00  
No. 178. Two row attachment.....2.10  
No. P-8. Hose with clamps. No nozzle.....50  
No. PX9. Hose, nozzle, extension rod with clamps attached.....2.25



60.



71



166.



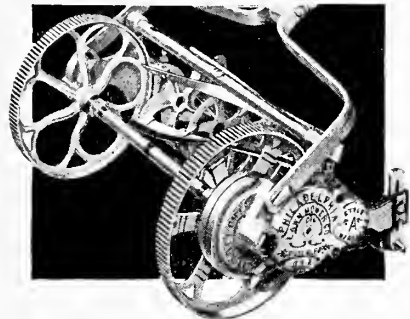
168.



P-8 Hose.

## Philadelphia Lawn Mowers

The most durable hand lawn mower in America. Combines the highest grade materials and best workmanship. Light in weight and easy to run. Built for hard usage and long life.



Style A. Cylinder with 5 blades. High wheel, all steel. 10-inch driving wheels. Crucible steel knives. Long, large bearings. Double ratchet. Three gears on one side. More of these mowers are used by parks and estates than all other makes combined.

15 inch.....	\$23.50
17 inch.....	26.50
19 inch.....	29.00

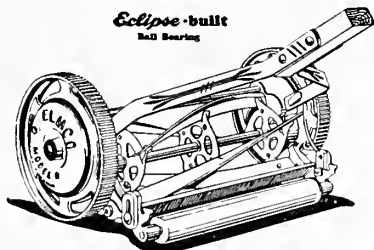
Style K. Five blades. Of similar construction as the Philadelphia Style A, but it has roller bearings.

14 inch.....	\$21.00
16 inch.....	24.00
18 inch.....	27.00

**We handle only High Grade Dependable Lawn Mowers with a National Reputation for Hard Service and Long Life. You cannot buy better anywhere.**

## Palmer's Special "Eclipse Made"

Eclipse-built  
Ball Bearing



An economical but efficient and durable mower. Has 4 blades, 8-inch wheels, lower bar adjustment. Ball bearings. Finished in dark green, gold trimmed.

14-inch blade.....	\$ 9.50
16-inch blade .....	10.00
18-inch blade .....	10.50

## Lawn Mowers

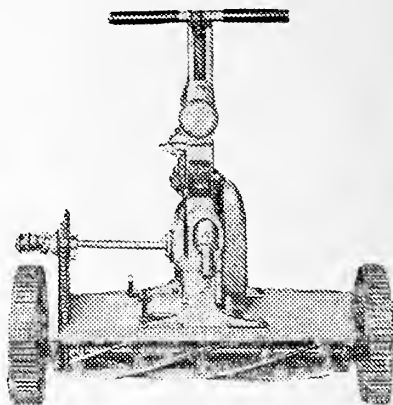
### The Moto Mower

The most compact, simple and economical power lawn mower on the market. Used by the largest Estates, Golf Clubs, Cemeteries and Public Parks in America. Turns sharp angles and tight corners other mowers would fail.

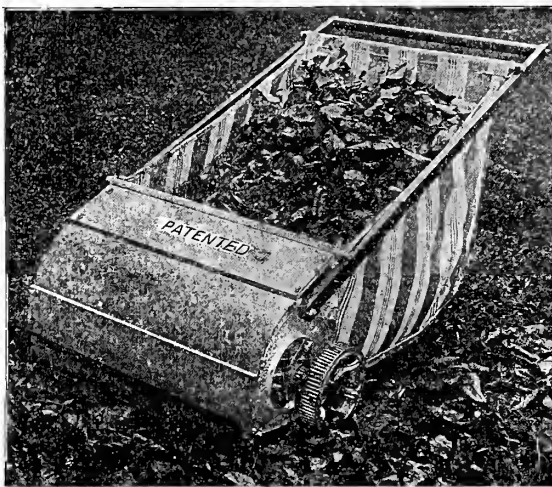
The Moto Mower is light in weight but sturdy in construction. Equipped with a 4-cylinder, valve-in-head engine, developing ½ horsepower. Crank and camshafts of chrome nickel steel. Mower frames constructed of malleable iron; frame rods of rolled steel. Equipped throughout with Timkin Roller bearings.

Other outstanding features of the Moto Mower are pressed steel traction wheels with individual clutches, operated from the handle, safety clutch and circulating splash system of lubrication, etc.

The Moto Mower cuts a swath 21 or 27 inches wide, and can be raised or lowered from ¼ to ¾ inches. Will cut 4 to 5 acres of lawn a day and will climb a 35° grade. Gasoline consumption 1 gallon a day. 18-inch Moto Mower, \$140.00 complete; 21-inch Moto Mower, \$190.00 complete; 27-inch Moto Mower, \$280.00 complete.



## Pennsylvania Rotary Lawn Rake



The flexible wire rakes of this machine will remove from the lawn all cut grass, leaves, trash and all sorts of litter, leaving the grass standing upright and free from rubbish. Operates by suction created by 3 revolving rakes (or brushes) on the same principle as a vacuum cleaner.

For Tennis Courts, Golf Greens, sidewalks and other smooth surfaced places, brushes are used. The change from brushes to rakes or vice versa is made easily and quickly.

Width 24 inches. Shipping weight 100 lbs.

Equipped with rakes \$35.00  
Brushes, extra..... 8.00

## Eclipse Lawn Mower

THE LIFETIME LAWN MOWER—INSTANT ADJUSTMENT  
NO TOOLS REQUIRED

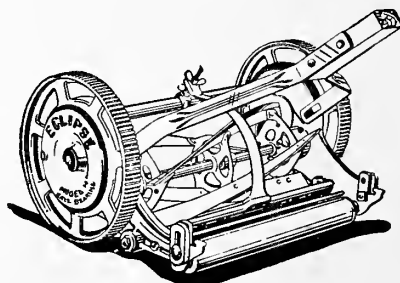
Practical Self-Sharpening Device

We have faith in every Eclipse Lawn Mower we sell. Knowing that the manufacturers put the best of material and workmanship into Eclipse Mowers, and stand behind their product, we can sell them to our customers with absolute confidence in their giving satisfactory service.

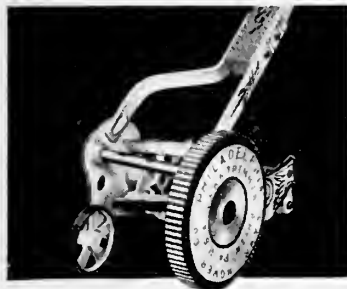
Eclipse Mowers have exclusive patents, privately owned, that are not found on lawn mowers of any other make—fourteen points of special merit. The self-sharpening and thumbscrew lever adjustment are alone worth your special consideration. You need no tools with an Eclipse.

**ECLIPSE MODEL B.** Five blades. Ball bearings. 10-inch wheels. Double internal protected gears. Cuts swath adjustable from ¾ inch to 1½ inches. Finished in silver and gold, green and black trim.

14-inch blade .....	\$18.50
16-inch blade .....	20.00
18-inch blade .....	21.00







## Lawn Supplies

### Philadelphia Lawn Trimmer

Cylinder with 4 blades. Driving wheel, 8 inches. Single pinion. Cuts within  $\frac{1}{4}$  inch of edge. Diameter of cylinder  $5\frac{1}{2}$  inches.

An efficient and complete lawn trimmer, built for durability and service. Positively cuts smoothly to  $\frac{1}{4}$  inch of wall, post, tree or fence. Vanadium crucible steel blades. Eliminates use of shears or sickles. 6 inch, \$9.50.

### Berghman Lawn Mower Sharpeners

A high-grade durable lawn mower sharpener, easy to use and adjustable to all types and makes of machines. A hundred-fold better than a file—no danger of making low spots in the blades. Each, \$1.00.



## Philadelphia Grass Catcher

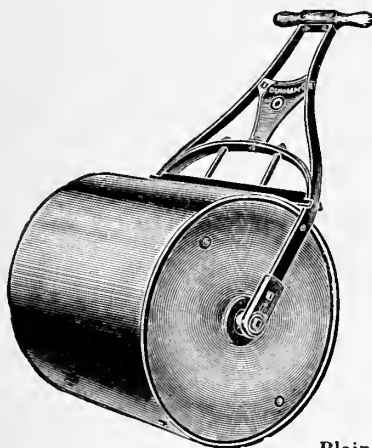
Made of strong galvanized iron bottoms and frames, and covered with heavy never-rip duck cloth sides. Blue or green striped. State size and style of mower when ordering.

14-inch .....	\$3.00
16-inch .....	3.25
18-inch .....	3.75

## Dunham Lawn Rollers

### Water Ballast—Roller Bearing

The Dunham is the best roller-type roller on the market. Can be made as heavy or as light as wanted simply by putting in the right amount of water. Made of heavy steel plate, scientifically welded, has steel handles and rounded edges. Built to last a lifetime.



	Roller Bearing	Plain Bearing
	WB 5	WB 7
Diam. ....	18 in.	24 in.
Length .....	24 in.	24 in.
Weight Empty..	85 lbs.	110 lbs.
Weight Full..	265 lbs.	420 lbs.
Price .....	\$18.00	\$21.00



## Vigoro Spreader

The Vigoro Spreader applies Vigoro evenly and accurately. Saves time and waste of plant food, and insures best results. Prices, f. o. b. St. Louis: Junior Size .....\$ 6.65 Standard Size ..... 11.60 Special Size ..... 18.95

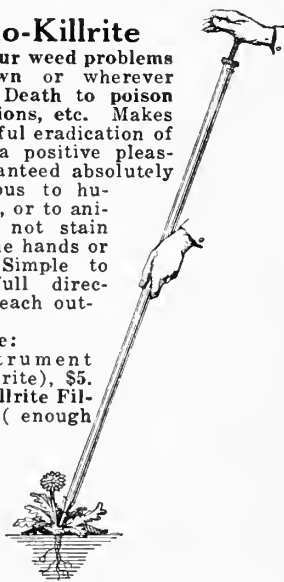
## Dando-Killrite

Solves your weed problems in the lawn or wherever they are. Death to poison ivy, dandelions, etc. Makes the successful eradication of all weeds a positive pleasure. Guaranteed absolutely non-poisonous to humans, birds, or to animals; will not stain or injure the hands or clothing. Simple to operate; full directions with each outfit.

### Price:

The instrument (Dando-Killrite), \$5.

Dando-Killrite Filler, per can (enough for 3 fillings of the gun), 60c.

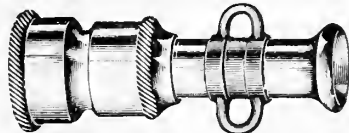


## Graduating Nozzles



RAIN KING. Easy to adjust from finest spray to long stream. Will last a lifetime. Each, \$1.50.

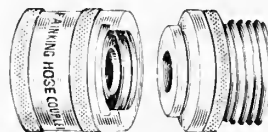
LITTLE WONDER RAIN KING. 85c.



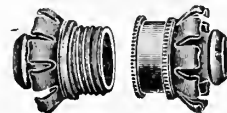
GEM. Made of polished brass. Adjustable to throw a solid stream, light spray or shut off. Each, 90c.

RAINMAKER. Similar to Gem but of cheaper construction. Each, 50c.

## Hose Couplings



RAIN KING HOSE COUPLINGS. Made of solid brass. Instantly connects hose to faucet or nozzle by simply slipping one-half into the other. Each, complete, 60c.



PERFECT CLINCHING COUPLINGS. Adjusts to any thickness of hose. Length  $2\frac{1}{2}$  inches. Please specify for what size hose when ordering. Each, 25c.

## Palisade Garden Hose

Made from the highest grade of rubber. Strong, durable, flexible and will not kink. Has thick, seamless rubber lining and tough rubber cover, making it absolutely leakproof. Corrugated surface. We can supply any length and will fit with couplings if requested.

$\frac{1}{2}$ inch—per ft. ....	\$0.13
$\frac{3}{4}$ inch (standard)—per ft. ....	.14
1 inch—per ft. ....	.15



## Lawn Supplies

### SPRINKLERS

**THREE ARM SPRINKLER.** Will cover a wide area and distribute the water evenly. Throws a spray which breaks and forms a fine mist. Made of iron base, red enameled upright tube and brass arms. Height 10½ inches. Each, \$1.50.

**RAIN KING SPRINKLER.** Will sprinkle a circle 8 feet to 70 feet across. Can also be adjusted to a stationary position for watering shrubs, flower beds, etc. Nozzles, bushings and hand wheel are made of solid brass. Base and sprinkler arm made of heavy castings painted green.

Standard Rain King (range 4 to 45 feet) .....\$3.50

Majestic "A" Rain King. 15 inches high (range 5 to 50 feet) ..... 6.50

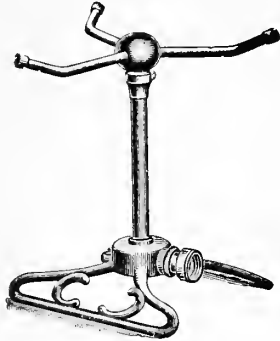
Majestic "B" Rain King. 24 inches high (range 5 to 50 feet) ..... 7.50

The "A" and "B" Majestic throw a higher spray than standard type.

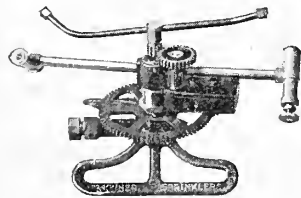
**BRASS RING LAWN SPRINKLERS.** Made of polished brass; top perforated with fine holes. Each, 75c.

**HALF RING FOUNTAIN.** Similar to the above but is just a half-ring. Sprays in a semi-circle which avoids wetting walks, walls, etc. Each, 75c.

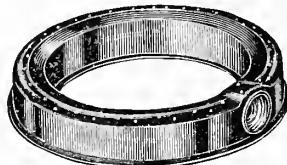
**SAUCER SPRINKLER.** Distributes water evenly over a 30-ft. circle. Makes a fine, misty spray. Each, 75c.



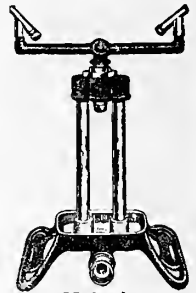
Three Arm Sprinkler.



Skinner Roto-Rain Sprinkler.



Brass Ring Sprinkler.



Majestic Rain King.



Standard Rain King.



Saucer Sprinkler.

### Skinner Roto-Rain

Built to Last—Best for Large Lawns

Here is the best revolving sprinkler for large lawns, fairways, golf greens, etc. Throws an adjustable spray from fine to full flow over a circle from 20 to 80 feet. Revolves slowly insuring better water distribution and less wear. The Roto-Rain Sprinkler is built to last, combining to an unusual degree, expert workmanship and high quality materials. Each, \$15.75.

### Turf Edger



**TRUE TEMPER No. 40.** For trimming the edges about walks and drives. Made of high grade polished steel. 4 ft. handle. Each, \$1.50.

### Lawn Edgers

**PLANET JR.** A useful and handy tool to keep your lawn edges well trimmed along walks, flower beds, walls, etc. Light weight and easy to work with. Each, \$1.75.



### Grass Sickles

Made of the finest tempered steel and strongly put together. The handle is raised from the blade which protects the user from skinning and bruising the hands. Each, 75c.

### No. 120 Wire Lawn Rake

These reversible, light weight rakes are made for use on sodded lawns to remove grass clippings. Will not tear or pull grass. 5½ ft. handle. Each, \$1.00.

### Wood Lawn Rake

A 26-tooth rake made of hardwood head and genuine hickory teeth with malleable iron brace and socket. 6-foot ash handle. A handy rake for leaves, hay, etc. Each, \$1.00.

### Japanese Broom Rake

Fine for cleaning leaves, debris, etc., out of the lawn, leaving it as free from refuse as though swept with a broom. Made of split bamboo rigidly secured. It weighs only 12 ounces but is durable and efficient. Each, 60c.

### Hose Reels

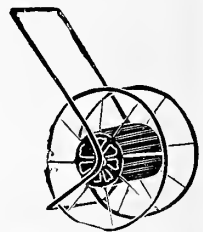
**ALL IRON.** Light in weight, frictionless and indestructible. Corrugated drum allows air circulation under hose, preventing mildew. Cannot tip over when un-reeling.

For 100-ft. hose .....\$4.75

For 150-ft. hose ..... 5.50

**UPRIGHT HOSE REEL.** Light, durable and capacious. Frame is made of channel steel, strong cast iron wheels, solid steel reel arms, and heavy corrugated drum. Enameled green.

For 100-ft. hose .....\$2.75



### Hudson Dandelion Rake



Cannot be equalled for raking up old grass, weeds, etc., and making new seed beds. Whenever strenuous raking is necessary, the Hudson Dandelion Rake will prove valuable. Made of durable steel and built for long, hard service. Each, \$1.25.

### Weed Pullers



Push the tool down close below the roots at an angle of 95 degrees; then push toward the weed and pull up straight. Finished in black enamel with wooden Easy-Grip handle. Each, 75c.

### Dandelion Weeder

High quality steel. Made all in one piece. Will not bend. Each, 75c.



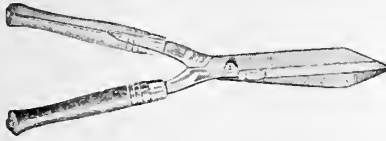
## Shears and Pruning Tools

### Hedge Shears

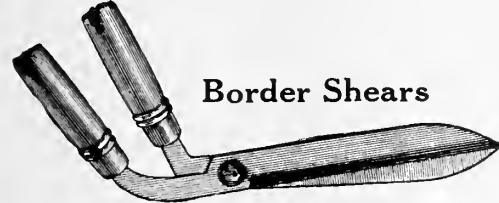
Made of the highest quality tempered steel. Used for trimming hedges and for cutting grass under fences, bushes, etc. Notched.

No. 101, Imported No. A101  
Sheffield Steel American

8-inch blades .....	\$2.75	\$2.25
9-inch blades .....	3.00	2.50
10-inch blades .....	3.25	2.75

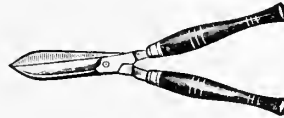


### Border Shears



Designed for trimming the overhanging grass around flower beds, borders, walks, driveways, etc. 9-inch blades. Long handles.

No. 104, without wheel .....\$5.50  
No. 105, with wheel ..... 7.00



### Ladies' Hedge Shears

No. 107. Ladies' pattern. A very graceful tool designed for ladies' use and light work. Made of fine quality steel and hardwood handles, both highly polished. 6-inch blades, \$1.75.

### Imported Lion Pruning Shears

This wonderful pruning shear is manufactured in Germany and is the best one on the market today. It is nickel plated all over and made of the first quality steel. Many of the leading professional gardeners and horticulturists are using this pruning shear with complete satisfaction. Each, \$2.75.



### Reiser Pruning Shears

A shear that is favorably known the world over. Gives complete satisfaction and long usage. No. 534, \$2.50.



### Flower Gathering



### Scissors

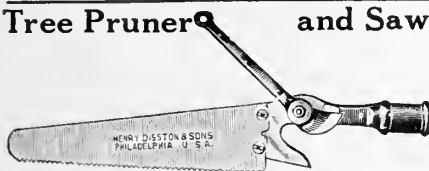
Nickel-plated. Holds the flower when cut. Finest quality. Each, \$1.75.



### California Pruning Shears

Tempered blades, fully polished handles. No. 1541, \$1.50.

### Tree Pruner and Saw



The knife is operated with a cord and is reset automatically by a spring. Has a 12-inch plain toothed saw made by Disston. Straight blades. Each, \$3.00.

### Hook and Saw Pruner



Has a 10-inch slender tooth, curved saw made by Disston. Made of crucible steel. Each, \$3.00.

### Waters' Tree Pruner



**WATERS' TREE PRUNERS.** A dependable tree pruner. Cuts limbs up to 1 1/2 inches in diameter.

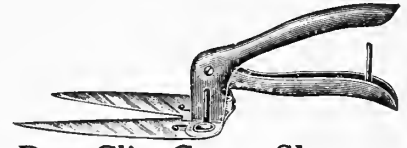
8-ft. pole .....	\$2.00
10-ft. pole .....	2.25
12-ft. pole .....	2.50
Extra blades, each .....	.20

### Pruning Saws



16-inch, stationary handle, each ...\$1.50  
16-inch, adjustable handle, each ... 1.75  
16-inch, curved, double edge, each .. 1.75

### GRASS SHEARS

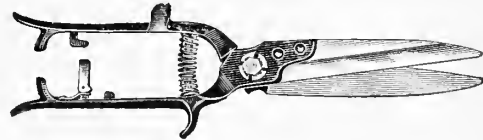


### Doo Clip Grass Shears

Self Sharpening

The shear that has out-sold all other makes in 1928. It is stronger, keener cutting, and easy to operate. Its natural up-and-down movement takes all the wrist-tire and finger-ache out of lawn trimming. No skinned knuckles when trimming close to walls, walks, trees, etc. \$1.25 each.

**SATISFACTION OR MONEY BACK**



**IMPROVED GRASS SHEAR.** A wonderful tool for cutting grass and light vines. The handles are made to fit the hand. Easy to use—no tiring—no blisters. Each, \$1.00.



**STANDARD GRASS SHEARS.** A handy tool for trimming the grass along walks and flower beds. Made of high quality, crucible steel, polished. 6-inch blade. No. 355, each .....\$1.25  
No. 346, each ..... .50

**LADIES' PRUNING SHEARS.** Imported, small nickel-plated shears of high quality. Six inches long. Fine for roses and small shrubbery. No. 544, \$1.75.

**ECONOMY PRUNING SHEAR.** Polished steel blades. Black handle. Large .....\$0.75  
Small ..... .50



### Cyclone Seeder

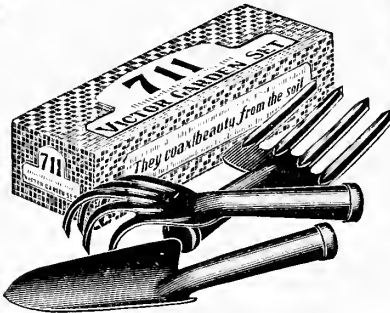
(Improved Model). This is an efficient and practical machine for sowing either seeds or fertilizer. Fits comfortably over the shoulder. Equipped with 1/2 bushel white duck bag, oscillating feed plate which prevents seed from clogging and automatic adjustment for shutting off the flow of seed instantly. Each, \$2.00.

## Garden Tools



705

### "TRUMP" Hand Garden Tools Special Quality



704

These tools are made of heavy specially treated steel, and built to stand long, hard usage. You can't duplicate these tools anywhere at such reasonable prices.

No. 705 Wood Handle Trowel .....	\$0.25
No. 700 All Steel Trowel .....	.20
No. 704 Transplanting Trowel and Bulb Planter .....	.20
No. 711 Special Set of "TRUMP" Tools: 1 Trowel, 1 Weeder and 1 Fork. Complete .....	.50

### Spading Forks



4 tine spading fork. Better than solid spades for gardening. The fork not only turns up the soil but breaks it up and makes cultivating easier. Will stand hard service.

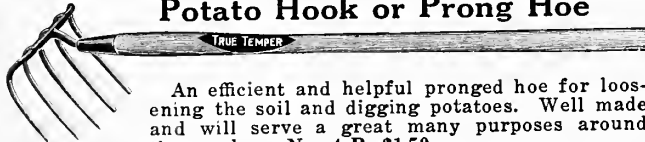
No. 433 .....	\$2.00
No. 435 .....	1.50

### Garden Spades

A special spade of heat treated steel, high polished. Full strap front and back. Built to last indefinitely.

No. 101 .....	\$3.50
No. 102 .....	1.75

### Potato Hook or Prong Hoe



An efficient and helpful pronged hoe for loosening the soil and digging potatoes. Well made and will serve a great many purposes around the garden. No. 4-B, \$1.50.

### Michigan Beet Weeder



A convenient little tool for working beets, carrots and other small vegetables. No. B-41, 75c.

### Triangular Thinning Hoe



A popular tool for close work among onions and other small crops. Blades 3 inches wide. Handle 4 ft. long. No. 34-W, \$1.00.

**TRIANGULAR WEEDER.** Same as Triangular Thinning Hoe but has a stub handle and blade 3 inches wide. No. 3-W, 60c.



### Garden Hoes

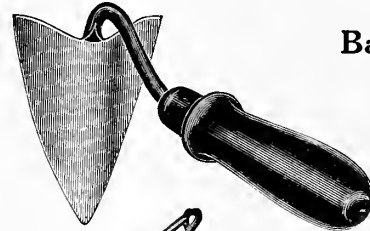
This is the standard garden hoe. Made of the best steel and hardwood handles.

No. G-6, 6-inch, each .....	\$1.25
No. G-8, 8-inch, each .....	1.50



### Warren Hoes

Has an almost unlimited number of uses for drilling seed, covering furrows, hilling, cultivating and weeding. Regular True Temper quality. Handles 4 1/3 ft. long. Each, \$1.50.



### Baby Warren Hoes

Similar to the regular Warren Hoes, but for small hand cultivating. Each, 75c.



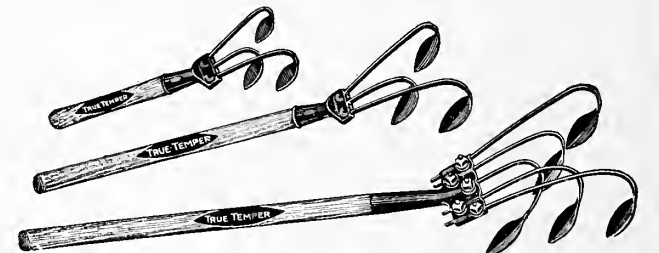
### Steel Bow Garden Rake

Made of solid steel with white ash handle. Teeth curved. This rake is preferred for general use as it can be applied to a variety of needs. 12 teeth, \$1.25; 16 teeth, \$1.50.

### Level Head Garden Rakes

The old standard pattern with heavy straight teeth and straight head. Made of forged steel and has no rivets or welds. Fine for breaking ground and leveling beds. 14 teeth. \$1.00 each.

### Garden Cultivators



**INVINCIBLE PRONG CULTIVATORS.** Popular with small gardeners not justified in buying a wheel cultivator. Handle 4 1/3 feet. Adjustable teeth for desired width. Five teeth. Each, \$1.25.

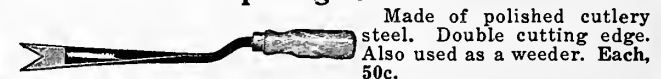
**INVINCIBLE JR.** 3 teeth. 4-ft. handle. Each, \$1.00.

**INVINCIBLE MIDGET.** 3 teeth. 8-inch handle. Each, 75c.

### Ladies' Four-Piece Garden Set

These tools are made from the same high grade material as the larger True Temper Tools. Especially popular with women and children. Set, \$3.25.

### Asparagus Knife

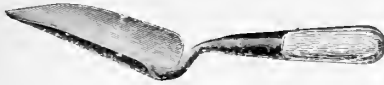


Made of polished cutlery steel. Double cutting edge. Also used as a weeder. Each, 50c.



## Garden Tools

### American Garden Trowel



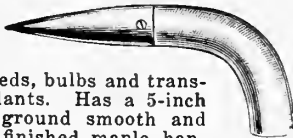
A wonderful steel tool of the best material and construction. Blade and socket one piece. Varnished hardwood handle riveted into socket. When you buy this trowel you will not need another for a long time. Each, \$1.00.

### English Pattern



Made of heavy steel but still light and durable. Each, 50c.

### Planting Dibble



For planting seeds, bulbs and transplanting small plants. Has a 5-inch cast iron point, ground smooth and bright. Natural finished maple handle fastened to the point with screws. Entire length 10 inches. Each, 75c.

### Excelsior Garden Weeder

Has 5 claws or fingers that are useful in cleaning and pulverizing the soil as well as weeding.



Each, 25c.

### Hazeltine Garden Weeder

A popular style of hand weeder, the blade forming a half square. Its peculiar shape permits a wide range of work.



Each, 25c.

### Say TWIN BRAND

**HENCKLES PRUNING KNIFE.** Hook blade, made of finest German steel. Cocobola handle, brass lined. Each, \$1.50.



No. 769.

**HENCKLES BUDDING KNIFE.** Smooth black horn handle. Finest rounded steel blade. Folding ivory budder. Each, \$1.75.



No. 779.

### Imported Pruning and Budding Knives



No. 2-C.

**TWO BLADE PRUNING KNIFE.** One hooked and one straight blade. Stag handle. Brass lining. Each, \$2.00.

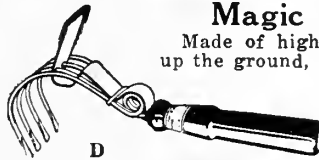


No. 717.

**LADIES' BUDDING KNIFE.** Genuine ivory handle. Glazed blade. Handle tapers for budding. Each, \$1.50.

### Magic Weeders and Hoes Combined

Made of high quality tempered steel. Useful in loosening up the ground, pulverizing soil, light cultivating and weeding.



D

Style A ..... \$0.15  
Style B, 18" handle ..... .25  
Style D ..... .50



A



B

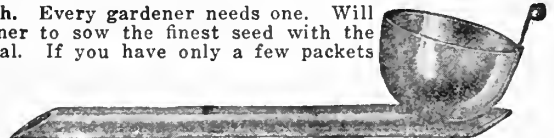
### Scolly Rubber Sprinklers

For sprinkling cut flowers, ferns, plants, seedlings, etc. Has a big rubber bulb which ejects the water in a fine spray when pressed. Capacity 8 ounces.

Straight neck ..... \$1.25 Angle neck ..... 1.25

### Sowrite Seed Sower

**Sows Seed at a Touch.** Every gardener needs one. Will enable even the beginner to sow the finest seed with the skill of the professional. If you have only a few packets of seed to sow you will save their price many times by obtaining more and better plants.



**"SOWRITE" MODEL A.** Made of fiberloid. Indestructible; transparent. For all fine seeds. Price, \$1.00, postpaid.

## Plant Supports

### Japanese Bamboo Stakes

Used for staking plants in greenhouses and in the garden. Round, painted green.

Size	Doz.	100
1½ ft. height	\$0.10	\$0.45
2 ft. height	.15	.75
3 ft. height	.20	1.10
4 ft. height	.25	1.50
6 ft. height (natural)	.20	1.50

### Chinese Tonkin Canes

Heavy Bamboo, 5/8 in. x 3/4 in. 6 ft. height	Doz.	100
	\$1.00	\$7.50

### Cedar Garden Stakes

For Dahlias, Tomatoes and other tall growing plants. Painted green. Made of selected Cedar. Diameter, 1 inch.

	Doz.	100
4 ft. height	\$1.00	\$6.00
5 ft. height	1.50	9.00
6 ft. height	1.75	11.00

### Adjusto Plant Supports

Adjusto Plant Support

A practical, very simple, unbreakable and low-priced support. Consists of a strong, green painted, wooden stake and a wire ring that can be adjusted to any height, and will last a lifetime. Complete with wires.

PRICES COMPLETE WITH RINGS			
Height	Doz.	Height	Doz.
1½ feet	\$1.20	4 feet	\$3.00
2 feet	1.50	5 feet	3.60
3 feet	2.40	6 feet	4.20
PRICES OF STAKES ONLY			
Height	Doz.	Height	Doz.
3 feet	\$1.20	5 feet	\$1.80
4 feet	1.20	6 feet	2.40

### Timesaver Plant Support

We consider this the most serviceable plant support to date. It consists of a round cold drawn galvanized sliding clip, and a loop of Java fiber—dyed green. This plant support is very easy to manipulate, can be adjusted to any height, looks neat in the garden, will last indefinitely and is inexpensive. The larger stakes are made of thicker steel, in comparison to the size. Write for circular.

Height	Doz.	Height	Doz.
2½ ft.	\$0.95	4 ft.	\$2.20
3 ft.	1.15	5 ft.	2.75
3½ ft.	1.60	6 ft.	3.05

## Garden Supplies

### Richmond Style Cedar Tree Tubs

These tree tubs are made of seasoned selected Virginia White Cedar and are bound with electric wire hoops. They are painted with the best oil paints, a handsome green color, inside and out.



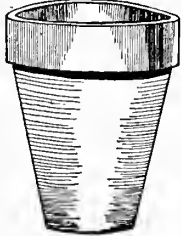
Size	Inside Top Diameter	Inside Depth	Price
3	8-inch	8-inch	\$0.95
4	9-inch	9-inch	1.00
5	10-inch	9-inch	1.10
6	11-inch	10-inch	1.50
7	12-inch	11-inch	1.75
8	14-inch	12-inch	2.25

### New York Style Cedar Tree Tubs

Made of seasoned selected Virginia White Cedar, trimmed with specially designed metal feet, and hooped with heavy steel hoops, and metal handles. They are painted dark green outside, dull gray inside.



Size	Inside Top Diameter	Inside Depth	Price
1	12-inch	10 1/2-inch	\$2.50
2	13-inch	12 1/2-inch	3.35
3	14 1/2-inch	13 1/2-inch	4.00
4	19 1/2-inch	16 1/2-inch	5.50



### Red Earthenware Flower Pots

Cannot be sent by mail. Express and freight only. Write for special quantity prices.

Size	Each	Doz.	100
2-inch	\$.02	\$.22	\$ 1.50
3-inch	.03	.35	2.50
4-inch	.05	.50	3.50
5-inch	.07	.80	6.00
6-inch	.10	1.05	8.00
7-inch	.20	1.80	13.00
8-inch	.25	2.50	17.00
9-inch	.45	4.00	
10-inch	.50	5.75	
12-inch	.90	10.00	
14-inch	1.50		

### RED EARTHENWARE FERN POTS OR 1/4 POTS

Size	Each	Doz.	100
4-inch	\$.05	\$.50	\$ 3.50
5-inch	.07	.80	6.00
6-inch	.10	1.05	8.00
7-inch	.20	1.80	13.00
8-inch	.25	2.50	17.00
9-inch	.45	4.00	
10-inch	.50	5.75	

### RED EARTHENWARE BULB PANS OR 1/2 POTS

Size	Each	Doz.	100
4-inch	\$.05	\$.50	\$ 3.50
5-inch	.07	.80	6.00
6-inch	.10	1.05	8.00
7-inch	.20	1.80	13.00
8-inch	.25	2.50	17.00
9-inch	.45	4.00	
10-inch	.50	5.75	

### RED EARTHENWARE FLOWER POT SAUCERS

Size	Each	Doz.	100
3-inch	\$.03	\$.35	\$ 2.50
4-inch	.05	.50	3.50
5-inch	.06	.65	5.00
6-inch	.10	1.00	7.00
7-inch	.15	1.30	10.00
8-inch	.20	1.80	13.00
9-inch	.30	3.00	
10-inch	.45	4.00	
12-inch	.75	7.50	

### Bird's IMPROVED NEPONSET Flower Pots



Made of heavy water-proof paper. When setting out your plants, the pot can be immersed in the soil, where it will rot away in a few days. Thus the root system is not interfered with, in transplanting.

Size	Doz.	100	1000
2 1/4-inch	\$.10	\$0.50	\$ 3.95
2 1/2-inch	.10	.60	4.50
3-inch	.18	.80	6.25
3 1/2-inch	.20	1.00	8.10
4-inch	.25	1.30	10.25
5-inch	.30	2.00	15.50
6-inch	.50	3.00	19.50

## Plant Labels

### WOODEN POT AND GARDEN LABELS (Painted)

Note: Our pot labels are painted to facilitate writing.

4-inch	100	1000
5-inch	\$0.40	\$2.50
6-inch	.50	2.75
8-inch	.60	3.50
10-inch	.75	5.50
12-inch	1.00	8.00
	2.00	16.00

### WOODEN COPPER WIRED TREE LABELS (Painted)

3 1/2-inch	100	1000
	\$0.45	\$3.00

### PYRALIN PLANT AND TREE LABELS (Du Pont)

Durable and lasting. Will stand all weather. Just inscribe the name of the plant with water-proof ink and you have a neat, legible label that will last indefinitely.

Tree labels (copper wire attached)	100	1000
Pot labels (4-inch)	\$0.75	\$6.00
	.50	4.00

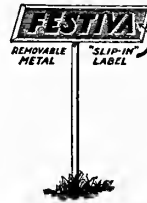
## Beacon Plant Markers

The strongest plant marker on the market. Heavy stake with oval name space at top. Shape on an angle for easy visibility.

	Doz.	100
9-inch galvanized	\$0.50	\$3.50
9-inch zinc	.90	6.00
19-inch galvanized	1.25	8.00
19-inch zinc	1.60	11.00

SPECIAL BEACON INK. 50c bottle.

## Copper Tree and Shrub Labels



Write the name on the copper with a pointed metal stylus. The scratched surface corrodes and you have a permanent label. Box comes complete with stylus.

With 10-inch copper stake	100
With 15-inch copper stake	\$2.50
	3.00

## Indestructo Garden Label

Metal, 15-inch stake with holder. Interchangeable metal label. Price, \$3.00 per doz.; \$24.00 per 100.

WEATHERPROOF PENCILS. For using on pot and garden labels. 25c each.

WEATHERPROOF INK. 40c per bottle.

## Raffia, Twines, Etc.

RAFFIA. Extra strength. For tying plants, shrubs or trees; also for grafting and basket making.

Natural Color: Skein, 10c; 1/4 lb., 15c; 1 lb., 45c. Dyed Green: Skein, 15c; 1/4 lb., 40c; 1 lb., \$1.25.

CELERY TAPE. No. 21. Red or blue. 1000-yd. spool, \$3.50.

TOMATO TWINE. (No. 1 Jute). 2- or 3-ply. 1 ball (1/2 lb.), 15c; per lb. 30c; 5 lbs., \$1.25.

BUNCHING TWINE. (No. 1 Cotton). 3-, 4- or 6-ply. Per lb., 50c; 5 lbs., \$2.00.

SILKALINE FLORISTS' THREAD. 2-oz. spool, 40c; 1-lb. box (8 spools), \$3.00.

## Wire Hanging Baskets

Size	Each
8 inches diameter	\$0.30
10 inches diameter	.35
12 inches diameter	.45
14 inches diameter	.60

## Sphagnum Moss

Used for filling wire hanging baskets or for mixing with potting soil. 1 lb., 20c; bale (about 20 lbs.), \$2.50.

## Garden Supplies

# GATOR-HIDE Mulch Paper

Unrolled over the proposed plant-beds, and anchored by soil or other available material along the edges, Gator Hide Mulch Paper imprisons all the moisture in the soil. It catches and retains the sun's heat. This raises the soil's temperature, prevents cooling at night, and promotes continuous bacterial activity, liberating night and day nitrous food matter for the plant, producing bigger, better, and earlier crops.

Planting is done through holes made in the paper, or in the space between two strips of paper rolled out close together. Ample space is provided for plants, but none is left for weeds; nourishment the latter usually steal from soil is saved for crops.

### RETAIL PRICES

Type A (light weight)				Type B (heavy weight)			
Width	Length	Sq. Ft.	Per Roll	Width	Length	Sq. Ft.	Per Roll
18 in.	900 ft.	1350	\$3.50	18 in.	450 ft.	675	\$3.50
36 in.	900 ft.	2700	7.00	36 in.	450 ft.	1350	7.00

Special Sample Roll Grade "B," only 18 inches wide, 15 yards long for \$1.00. Shipping weight, 3 lbs.

Substantial discounts on orders of 30 rolls or more.

## HOTBED SASH

Made of selected Douglas Fir and glazed with special Hotbed Sash Glass. These frames are really strong and thoroughly made. Unpainted. Prices include crating charges, f. o. b. St. Louis, Mo.

Standard Size: 3x6 ft., with 4 rows of 7-inch glass. Weight 40 lbs. Each, \$5.75; 4 for \$21.00.

Garden Size: 4x6 ft., with 5 rows of 8-inch glass. Weight 55 lbs. Each, \$8.50; 4 for \$31.50.

## HOTBED MATS

A combination of heavy weight burlap felt and absorbent pulp, cemented together with a specially prepared water-proof compound. Absolutely impervious to rain, sleet and snow; proof against frost; repellent to rats and mice. Easy to handle and will last for years. 40x76 inches (for single frame). Each, \$2.85; per doz., \$28.75. 76x76 inches (for 2 frames). Each, \$5.00; per doz., \$50.00.

## Celo-Glass

Takes the place of glass in hotbed sash, garage and barn windows, storm doors and many other places at a substantial saving. Light weight and unbreakable. No glazing necessary, the only tools you need are hammer and tacks. Put up in rolls 3 feet wide, cut in lengths to suit. 1 sq. yd., \$1.65; 10 sq. yds., \$16.00.

# Germaco Hotkaps

## Make More Profit

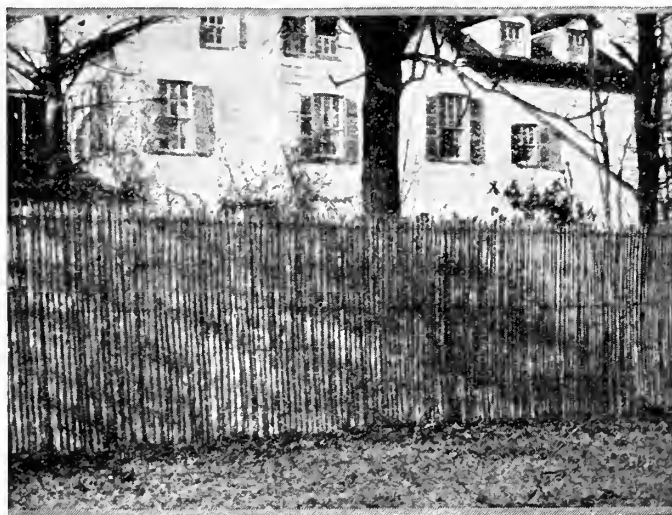
This Amazing New Method Gets Your Crop to Market Earlier

Germaco Hotkaps can make you extra dollars this season. They protect plants from frost, wind, rain, insects and ground crusting. Thus they produce hardier, quicker crops. You get higher prices!

Thousands were used in 48 states last year. They cost so little that growers cannot afford to be without them.

Prices: 1,000 lots, \$11.50; 5,000 lots, \$11.00 per 1,000; 10,000 lots, \$10.75 per 1,000. 250 trial package, including special type garden setter, \$4.00; standard Germaco HOT-KAP setter, \$2.50.

If you need HOTKAPS for your backyard garden, note these prices: 50, with garden setter, \$150; 100, with garden setter, \$2.25; garden setter alone, 50c.



## Dubois Woven Wood Fence

DuBois Woven Wood Fence is made by hand in France of live, split chestnut saplings bound together with copper-covered, rust-proof wire. Six heights from 18 inches to 10 feet provide for any fencing need.

DuBois harmonizes with any type of architecture due to its natural rustic appearance. It adds to the appearance of any property, while serving a multitude of practical screening and protective uses. Vines cling to it easily and need never be torn down, as DuBois requires no paint. DuBois is very economical, as its first cost is the last. It makes the perfect garden background as it forms a windbreak for plantings and an all-year screen that preserves seclusion when trees are bare. Quaint gates come to match, either single or double, with straight or curved tops.

### DUBOIS WOVEN WOOD FENCE

Height	Shipping Weight	Price per Ft.
18 inch	5-ft. Section 17½ lbs.	\$0.75
3 feet 10 inches	40 lbs.	1.45
4 feet 11 inches	50 lbs.	1.65
6 feet 6 inches	60 lbs.	1.95
8 feet	85 lbs.	2.45
10 feet	100 lbs.	2.85

### DUBOIS CLEFT FENCE

Height	Shipping Weight (16-Ft. Roll)	Price per Ft.	Wire Binding
3 feet 10 inches	125 lbs.	\$0.50	Copper \$0.65
4 feet 11 inches	150 lbs.	.65	.80
6 feet 6 inches	170 lbs.	.90	1.10

### WOVEN WOOD GATES (Curved or Straight Top)

Height	Shipping Weight	Price Each
	Single Double	Single Double
3 feet 10 inches	45 lbs. 210 lbs.	\$18.50 \$40.00
4 feet 11 inches	60 lbs. 250 lbs.	19.50 42.50
6 feet 6 inches	75 lbs. 300 lbs.	21.50 45.00
8 feet	90 lbs. 365 lbs.	26.50 52.50
10 feet	120 lbs. 450 lbs.	29.50 60.00

All Single Gates are 3 ft. wide; Double Gates 10 ft. wide. Gate prices include hardware.

### CLEFT GATES (Curved or Straight Top)

Height	Shipping Weight	Price Each
	Single Double	Single Double
3 feet 10 inches	45 lbs. 155 lbs.	\$12.00 \$30.00
4 feet 11 inches	60 lbs. 170 lbs.	13.50 32.50
6 feet 6 inches	75 lbs. 185 lbs.	15.00 35.00

All Single Gates are 3 ft. wide; Double Gates 10 ft. wide. Gate prices include hardware.

### FRAMEWORK FOR DUBOIS FENCE

Genuine mortised and tenoned chestnut framework for DuBois Fence is sold at 40c per running foot, including rails and posts. Thus, the framework for 100 ft. of fence costs \$40.00.

However, it is recommended that DuBois users in the West make their framework of 4x4 Cedar Posts and 2x4 Rails, which are obtainable at their local lumber yard. This framework averages about 20c per running foot.

All DuBois Fence is sold f. o. b. New York, freight rates less car lots, \$1.10½ per cwt.; car lots, 66c.

# Palmer's Special Fertilizers

## for Gardens and Lawns

Grass, Flowers, Shrubbery, Gardens Respond Quickly to this  
Perfect Plant Food

**L**OMA, the scientifically prepared plant food, will give you results that are startling—lawns velvety green, vigorous, flowering plants, sturdy, full-bloomed and tall; vegetables such as you have never had before. Loma is rich in nitrogen. Agricultural experts will tell you that nitrogen is the most vital plant food. Loma works quickly. In a week's time you can see the difference in your lawn.

Follow these simple directions for best results.

**Established Lawns** In the early Spring—just as soon as the frost is out of the ground—broadcast evenly with a sifter (an ordinary colander with holes of about  $\frac{1}{8}$ -inch is ideal) 15 to 20 pounds of Loma on an area 20 feet by 20 feet.

Immediately wet down thoroughly the treated area by turning the hose into a fine spray stream and directing the stream straight down. This washes the Loma off the blades of the grass and down to the roots where it must first go to perform its fertilizing function. Be sure all the Loma is washed down. Sprinkle thoroughly.

Follow this treatment with evening sprinklings for several days. In less than one week you will see new beauty rewarding you for your time and patience.

**Building New Lawns** Pulverize the soil very finely. Before seeding, apply 15 to 20 pounds of Loma on a plot 20 feet by 20 feet and work it well into the top 2 inches of soil by raking. Follow with a sowing of the grass seed and rake slightly. Roll and water thoroughly.

**Flower Beds** Broadcast 2 to 3 handfuls on a plot 3 feet by 3 feet, and work into the soil with a rake. Wet down thoroughly. Be sure to wash all the Loma off the foliage by thorough sprinkling.

**Gardens** Broadcast with a sifter, as described under "Established Lawns," 4 to 5 pounds of Loma on a plot 10 feet by 10 feet. Work well into the soil by raking.

# Lōma

*Beautifies Lawns and Gardens*

Follow with a second treatment of Loma a month later, using 2 pounds on a plot of the same size. Work well into the soil between the plants. Wet down thoroughly.

**Shrubbery** Broadcast 2 to 3 handfuls around each shrub, depending on size, within a radius of 2 feet of the stalk. Wet down thoroughly.

**Potted Plants** Scatter around plant 1 teaspoonful for each quart of soil. Repeat each month.

**Repotting Plants** Mix 2 teaspoonfuls thoroughly into each quart of soil.

**For Fruit and Shade Trees** Broadcast 1 pound for each inch of trunk diameter over surface of ground, reaching out slightly beyond spread of branches. Wet down immediately.

**Notice** In all cases after applying Loma, wet down the treated areas immediately and thoroughly. Avoid putting Loma on foliage or in direct contact with stalk of plant when using on flowers, gardens and potted plants.



**PRICES:** 1-lb. can, 25c; 5 lbs., 50c; 10 lbs., 85c; 25 lbs., \$1.75; 50 lbs., \$3.25; 100 lbs., \$6.00; 500 lbs., \$27.50; 2000 lbs., \$100.00.

## Make Artificial Manure with "Adco"

Converts leaves, grass-clippings, weeds, pea- and bean-vines, cornstalks, in fact, all refuse from the garden and lawn into real manure.

Simple and easy to make—Adco will do it for you in three months.

25-lb. bag (enough to make  $\frac{1}{2}$  ton manure) ..... \$ 2.00  
100-lb. bag (enough to make 2 tons manure) ..... 7.75  
150-lb. bag (enough to make 3 tons manure) ..... 10.50

A 25-lb. bag will treat about 12 wheelbarrow loads.



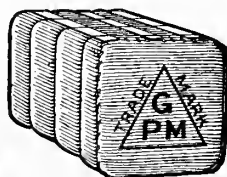
**PEAT MOSS AND DEHYDRATED COW MANURE COMBINED**  
Sterile—Odorless—Free of Weeds—An Ideal Soil Conditioner

Ready-to-use turf and garden dressing, which is made of materials of the best quality. The ingredients are just manure from high protein fed cows and quality peat moss functioning as a humus making material and a reservoir for soil moisture. The composition is about thirty-five parts of peat moss and sixty-five parts cow feces—no straw, shavings or trash. It analyzes almost equivalent to a 2-1-2 fertilizer, embodying the desirable properties of humus. Application: When seeding rich soils work in about  $\frac{1}{3}$  bag (18 lbs.); poor soils,  $\frac{2}{3}$  of a bag. As a top dressing on gardens and lawns use 1 bag to 400 square feet. 50-lb. bag (about 3 bus.), \$2.50.

IMPORTED GRANULATED  
**PEAT MOSS**  
Turf TRADE MARK MULL  
PM

**FOR LAWNS.** Apply Peat Moss on lawns in early Spring or late Fall. It will hold the moisture at the roots of the grass and prevent souring. In the Fall cover the lawn with  $\frac{1}{2}$  inch of Peat Moss. It will be assimilated by Spring. If Fall covering has been neglected apply a light application in the Spring and occasionally during the Summer. 1 bale will cover 480 square feet  $\frac{1}{2}$  inch thick.

**FOR GREENHOUSES.** Peat Moss makes the soil light, assures good drainage and helps the delicate roots to radiate quickly. Does not feed or overstimulate. Prevents the formation of a hard crust. Cuttings root rapidly in this material, or in mixture of Peat and sand.



**FOR MULCHING.** A mulch 4 or 6 inches deep on Fall bulbs is beneficial. As a Summer mulch for roses, cannas, peonies, dahlias, etc., Peat Moss assures constancy of moisture supply and makes for perfect development. 1 bale, \$4.25; 10 bales, \$4.00 per bale.



## Palmer's Special Fertilizers For Garden and Lawn

### VIGORO

*Specially prepared plant food*

A complete Plant Food. Especially prepared plant food that furnishes grass, trees, shrubbery and flowers the plant food elements necessary for maximum growth and flowering. It is free from dust, has no unpleasant odor and is easy and pleasant to apply.

Vigoro is a superior combination of plant foods that meets nature's most exacting requirements. It is completely balanced in every sense of the word. When Vigoro is used, no supplementary substances such as bone meal, potash, liquid manure, etc., are required.

**For Lawns.** Apply Vigoro early in the Spring, when the grass first starts to turn green, at the rate of 4 lbs. to 100 square feet. It should be spread evenly and wet down at once.

5-lb. pkg., 50c; 25-lb. bag, \$1.75; 50-lb. bag, \$3.00; 100-lb. bag, \$5.00.

### Black Beauty Humus

Prepared from deposits of decayed vegetable matter. Inert and free of weeds and disease. Excellent to start seeds in for propagating.

The following quantities are required to effectively cover an acre. If applied  $\frac{1}{2}$  inch in thickness, thirty tons per acre; if 1 inch thick, sixty tons per acre, and for general lawn work as a top dressing, one hundred pounds will effectively treat about 800 square feet, or three tons per acre.

5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00; 500 lbs., \$9.00; 1,000 lbs., \$15.00.

### Bone Meal

An excellent top dressing for lawns and an effective fertilizer for use in gardens, vineyards and orchards. Can be used around shrubs and in flower beds without danger of burning the plants. Apply 800 pounds to 1000 pounds per acre. 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.50; 100 lbs., \$3.50; 500 lbs., \$16.50.

### Hardwood Ashes

Valuable for its high potash content. Excellent for mixing with potting soil and as a lawn and garden fertilizer. 10 lbs., 50c; 50 lbs., \$1.50; 100 lbs., \$2.50.

### Palmer's Vegetable Fertilizer

A good general fertilizer for vegetable gardens that will produce bigger yields and better quality crops. It is also used extensively on grain and grass crops and is a satisfactory fertilizer for all purposes. Apply 800 to 1000 pounds per acre. 100-lb. bags only, \$3.50; 500 lbs., \$16.25.

### Hydrated Lime

Sweetens the soil and corrects acidity, making plant food elements more available. Excellent for lawns, apply 1 ton per acre. 10 lbs., 35c; 50 lbs., 90c; 100 lbs., \$1.70.

### Sulphate of Ammonia

A valuable fertilizer for all plants in which rapid growth or large leaf development is desired. Produces quick results. Analysis shows 25% ammonia. Used largely as a top dressing for Bent lawns. Use 100 pounds to the acre. Lb., 15c; 10 lbs., \$1.00; 50 lbs., \$3.00; 100 lbs., \$5.50.

### Muriate of Potash

A highly concentrated form of potash of especial value for potatoes, corn, grain and all root crops. Also used as a filler for other fertilizers. Apply 100 to 150 pounds for an acre. Lb., 15c; 10 lbs., \$1.00; 50 lbs., \$3.00; 100 lbs., \$5.00.

### Kopper's Fertilizer

(Sulphate of Ammonia). A specially prepared grade of this product that is very fine, dry like sand. Feeds the grass. Starves the weeds. 26 ozs., 25c; 5 lbs., 60c; 10 lbs., \$1.15; 25 lbs., \$2.25; 50 lbs., \$3.75; 100 lbs., \$6.00.

### Wizard Brand MANURES

#### PULVERIZED SHEEP MANURE

The best, most convenient and economical natural manure. Safe for all particular uses, such as golf course, country club and park lawns, market gardens, etc., in which the introduction of weeds and foreign grasses would be extremely objectionable. If you really want the greenest kind of a velvety lawn and gardens that will be a delight to possess, flowers of rare foliage and bloom, fruits, vegetables and berries that come near to perfection, give your soil a good dressing of Wizard Brand Sheep Manure the first thing this Spring. It does not fill your lawn with noxious weeds; it is always ready and clean to use, also easy to apply. As a top-dressing for lawns broadcast about 100 lbs. per 2,000 sq. ft., or 1 ton per acre. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.75; 500 lbs., \$12.50.



**SHREDDED CATTLE MANURE.** A coarse shredded manure, dried and sterilized; a splendid substitute for stable manure in gardens and greenhouses or wherever it is desirable to supply plant food, humus and organic matter. Especially valuable for composting, mulching and top dressing. Splendid for roses, ferns or where a cool slow acting manure is wanted. 100 lbs., \$2.75; 500 lbs., \$12.50.

**Acid Phosphate** 16% available phosphate. Used largely on vegetable and grain crops requiring great amounts of phosphoric acid. Apply 1000 pounds per acre. 5 lbs., 30c; 25 lbs., \$1.00; 100 lbs., \$3.00; 500 lbs., \$12.50.

### Nitrate of Soda

As a top dressing use at the rate of 100 lbs. per acre between the rows when the plants are well established, on the following vegetables: Cabbage, Cauliflower, Eggplant, Lettuce, Spinach, Beets, Celery and Onions. For Asparagus, a top dressing of 250 lbs. per acre when the young shoots are starting in the Spring. For Strawberries, apply between the rows at the rate of 100 lbs. per acre at the time of blossoming. For the home garden, apply a solution of one ounce to two gallons of water. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.00; 100 lbs., \$5.00.

### Nitrophoska

The highly concentrated, complete plant food. Contains 15% Nitragin, 30% Phosphate and 15% Potash. They are all soluble and easy to apply.

**FOR LAWNS AND GARDENS.** 5 to 10 pounds to each 100 square feet. Either apply dissolved in water or wash in with a hose immediately after broadcasting. It is also very effective when worked around shrubs and plants.

**FOR TRUCK GARDENS.** On Spinach, Mustard, and other broadcast crops use 200 to 400 pounds per acre, depending on the soil and other fertilizers in use. For side dressing crops like Cabbage, Tomatoes, etc., use 100 pounds per acre. Per 100 lbs., \$8.00; per ton, \$120.00.

### Dried Blood

This is used a great deal for indoor culture of flowering plants, being chiefly of nitrogen content. For roses, carnations and chrysanthemums it is very valuable. Also used for mixing with soil and for liquid fertilizing. Lb., 15c; 10 lbs., \$1.10; 50 lbs., \$4.00; 100 lbs., \$6.50.

### Tobacco Stems

Both a fertilizer and insecticide. Used largely for mulching and fertilizing. In addition to the three basic plant foods it contains nicotine, which is of value in killing the larvae of many insects that live in the ground. Lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 100 lbs., \$5.00.

# Insecticides and Fungicides

Write for Complete Spray Guide

## Wilson's O. K. Plant Spray

For 20 years this has been America's leading insecticide both for greenhouse and outside spraying. Controls Aphis, Thrip, Mealy Bug, Scale, Rose Bugs, and many other insects.

### ESPECIALLY RECOMMENDED FOR SCALE ON EVERGREENS

½ pt. ....	\$0.40	10 gals. ....	\$20.00
1 qt. ....	1.00	25 gals. ....	50.00
1 gal. ....	3.00	50 gals. ....	90.00
5 gals. ....	12.00		

**ACME ALL AROUND SPRAY.** A complete insecticide for controlling all insects and diseases that affect plants, chewing and sucking insects, blight and fungous diseases. Contains Arsenate, Bordeaux and Nicotine. Full directions with each package. ¼ lb., 45c; 1 lb., 95c.

**ARSENATE OF LEAD POWDER.** For spraying trees and shrubs against leaf biting insects. Does not injure foliage. Dilute 1 pound with 50 gallons of water. ½ lb., 30c; lb., 50c; 4 lbs., \$1.40; 12 lbs., \$3.60.

**BORDEAUX MIXTURE POWDER.** Used against mildew, blight, rust, scab and all fungous diseases. Can be used either dry or diluted at the rate of 1 pound to 5 gallons of water. Lb., 35c; 4 lbs., \$1.25; 12 lbs., \$3.00.

**DENDROL DORMANT SPRAY.** For use on all shrubs, shade trees, fruit trees, berries, etc. Controls all scale insects. Non-poisonous. Mix 1 part of Dendrol to 50 parts water. 1 gal., \$1.70; 5 gals., \$5.75; 30 gals., \$21.25.

**PARIS GREEN.** Kills potato bugs, worms, caterpillars, etc. When used dry mix 1 pound with 100 pounds of lime; when used as a liquid spray mix 1 pound with 50 gallons of water. Very poisonous. ¼ lb., 15c; ½ lb., 25c; lb., 45c; 5 lbs., \$2.00.

**LIME-SULPHUR POWDER.** More convenient to handle than lime-sulphur solution. For scale insects on trees and shrubs, and fungous diseases that can be treated in Winter or early Spring. For dormant spray mix 10 pounds to 50 gallons of water; for Summer spray mix 3 pounds to 50 gallons of water. Lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.75.

**SLUG SHOT (Hammond's).** The standard remedy for cabbage worms, potato bugs, rose slugs, currant worms, and all soft shell chewing insects that infest vegetables and flowers. Used as a dust. Lb., 20c; 5 lbs., 60c; 10 lbs., \$1.10; 50 lbs., \$5.25.

**NIKOTEEN (30%).** One of the best nicotine sprays for fighting aphids, plant lice, mealy bug, spiders and other forms of sucking insects. Oz., 30c; 2 ozs., 50c; ½ lb., \$1.25; lb., \$2.25; 4 lbs., \$7.00; 8 lbs., \$13.00.

**BLACK LEAF 40** is a solution of Nicotine Sulphate. It is highly recommended by Experiment Stations throughout the United States as a spray for soft bodied sucking insects. For spraying only. Directions must be followed carefully. 1-oz. bottle, 35c; ½-lb. bottle, \$1.25 (makes 40 to 100 gals.); 1-lb. bottle, \$2.50 (makes 100 to 250 gals.); 2-lb. can, \$3.75 (makes 200 to 500 gals.); 5-lb. tin, \$7.00 (makes 420 to 1050 gals.); 10-lb. can, \$11.85 (makes 840 to 2100 gals.).

**SCALECIDE (Pratt's).** Used to destroy San Jose scale. An all-round dormant spray for use during late Fall, Winter or early Spring when leaves are off the trees. Non-poisonous. One gallon makes 15 gallons of spray. 1 qt., 70c; 1 gal., \$1.60; 5 gals., \$6.00; 10 gals., \$10.00; 15 gals., \$11.50 (drum, \$2.00 extra); 30 gals., \$22.00 (drum, \$2.50 extra); 50 gals., \$31.00 (drum, \$3.00 extra). Drums returnable.

**SULFOCIDE.** A non-poisonous sulphur fungicide used effectively against fungous diseases of peaches, apples and all kinds of fruits, vegetables and flowers. Dilute 1 gallon to 200 gallons of water. Pt., 70c; qt., \$1.00; gal., \$2.75; 5 gals., \$8.75.

**KAYSO.** For best results with spraying, use KAYSO as a spreader. Two pounds to 20 gallons of dilute spray is recommended. This not only gives better spreading but makes the sprays more resistant to wind and rain. 10 ozs., 25c; 2 lbs., 45c; 10 lbs., \$2.10; 50 lbs., \$9.50; 100 lbs., \$18.00.

**APHIS PUNK (22½% Nicotine).** A paper thoroughly saturated with nicotine. Used largely for fumigating greenhouses and conservatories. Throws off a dense vapor when burned and kills aphids, thrips, white and green fly, spiders, etc. Doz. sheets in airtight package, 85c.

**TOBACCO DUST.** For fumigating and dusting and a preventative against aphids, beetles, fleas and insects in the ground and around roots of trees and shrubs. Lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 100 lbs., \$4.50.

**NICO-DUST NO. 10.** A remarkable insecticide for the control of asparagus aphids, cantaloupe aphids, pea aphids, leaf hoppers, flea beetles, cucumber beetles, squash bugs, etc. We recommend this very highly. Positive results. Lb., 75c; 5 lbs., \$3.00; 25 lbs., \$9.00; 100 lbs., \$27.50.

**PYROX (Bordeaux-arsenate of lead paste).** A combined insecticide and fungicide forming a remedy for fungous and leaf-eating insects. Dilute 1 pound with 5 to 10 pounds of cold water. Lb., 50c; 5 lbs., \$1.75; 10 lbs., \$3.00; 25 lbs., \$6.25.

**CEDO-FLORA.** An effective spray for the control of Mealy Bug, Red Spider, Scale and Aphids. Oz., 35c; 8 ozs., 70c; pint, \$1.25; quart, \$2.00; 1 gal., \$5.00; 5 gals., \$22.50; 10 gals., \$42.50.

**VOLCK.** A wonderful spray for the garden, nursery and greenhouse. Has produced marvelous results in controlling red spider, mites, flies, scales, mealy bugs, caterpillars, aphids, etc. Kills the insects and acts as a repellent also. This is the ideal spray for roses, chrysanthemums and carnations and is especially recommended for greenhouse use. ½ pt., 35c; pt., 60c; qt., \$1.00; gal., \$3.00; 5 gals., \$12.00; 14 gals., \$25.00.

**CYANOGAS (Calcium Cyanide).** A valuable insecticide for greenhouse fumigation. Destroys aphids, white fly, soft scale, thrips, etc. Scatter it along the walks and close the greenhouse for the night. Also used to kill rats, moles, gophers, etc. Lb., 75c; 5 lbs., \$3.00; 25 lbs., \$10.00.

**PARADICHLOROBENZENE.** For peach tree borers, to be used during August and September. Not effective at other seasons. Apply 1 ounce in a circle around the trunk of each tree and cover it with soil. Lb., 60c; 5 lbs., \$2.00; 10 lbs., \$4.00.

**TREE TANGLEFOOT.** A paste preparation for painting around the trunks of trees to prevent caterpillars from crawling up. A band 6 inches wide around the tree will prove effective. Lb., 50c; 5 lbs., \$2.35; 10 lbs., \$4.50.

**FISH OIL SOAP (Whale Oil Soap).** Effective as a Summer remedy for San Jose scale and all soft shell insects. A preventative against worms. A good wash for trees where bark has been eaten by insects. Comes in the form of soft soap which is diluted 1 pound to 10 gallons of water. Lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.75.

**WILSON'S WEED KILLER (Super-Strength).** Kills all plant growth. Clean and odorless. Removes all vegetation from paths, roadways, tennis courts, etc. One gallon mixed with 41 gallons of water will treat 800 square feet. Qt., 75c; gal., \$2.00; 5 gals., \$8.00; 50 gals., \$50.00.

**MASSEY DUST.** This is the famous "All In One" Rose Dust recommended by the American Rose Society. Effective in controlling mildew and Black Spot on roses, and also leaf disease of Delphinium. Dust your roses once each week with Massey Dust and no other treatment will be necessary. Lb., 20c; 10 lbs., \$1.50; 25 lbs., \$3.00.

**POMOGREEN.** The new all around Rose Dust for control of mildew, black spot and chewing insects. Well known to members of the American Rose Society. The color is leaf-green which eliminates discoloration of foliage. 1 lb., 50c; 5 lbs., \$1.50.

**SUPERFINE DUSTING SULPHUR (Special Flowers of Sulphur).** This particularly high grade of sulphur is superior to the ordinary Flowers of Sulphur, being much finer and more effective. However, you will notice that it is no higher in price. 1 lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.50.



**SEMESAN**  
**SEMESAN JR.**  
**SEMESAN BEL**  
**CERESAN**  
**CONTROL DISEASES**  
**HASTEN GERMINATION**  
**INCREASE YIELDS**  
**IMPROVE QUALITY**

## The Premier Seed Disinfectants

**SEMESAN**—This modern disinfectant can be applied in either the liquid or convenient dust form to prevent or control effectively a most diversified variety of diseases and fungous growths borne by seeds, bulbs, corms, roots, tubers, plants, grafts and soils. Semesan is harmless to plant life but extremely poisonous to disease and parasite organisms.

**SEMESAN JR.**—A less expensive but equally effective form of Semesan for the dry dust disinfection of both field and sweet corn seeds against the ear, root and stalk rots.

**SEMESAN BEL**—Applied to whole or cut seed potatoes, either as a dry powder or a whitewash-like water mixture. Semesan Bel has caused in many cases better disease-control and greater yields of disease-free potatoes than any other treatment known.

**CERESAN**—This is the only dust disinfectant which has effectively controlled such grain diseases as stinking smut of wheat, stripe disease of barley, loose and covered smuts of barley and oats. It will not harm the seed or grain drill. Only 2 ounces required per bushel of wheat or rye, and 3 ounces per bushel of oats and barley.

**In All  
Package  
Sizes**



**Prices for Du Pont Semesan**  
2 ozs...\$ 0.50 25 lbs....\$ 56.25  
1 lb.... 2.75 100 lbs.... 220.00  
5 lbs.... 13.00

**Semesan Jr. and Semesan Bel**  
4 ozs....\$0.50 25 lbs....\$ 31.25  
1 lb.... 1.75 100 lbs.... 120.00  
8 lbs.... 8.00

**Ceresan Prices**  
1 lb....\$0.75 25 lbs....\$12.50  
5 lbs.... 3.00 100 lbs.... 49.00

**Semesan Disinfectants Make Good Seeds Grow Better—Ask for Free Booklets.**

## Fungtrogen

This highly concentrated fungicide conquers mildew on roses and other plants practically over night and controls Black-Spot. A new and improved form of the famous Rosenbluth formulae, combined with a nitrogenous element that fertilizes through the foliage. It also stimulates Hollyhocks and Geraniums, prevents rust on Carnations and the diseases of Delphiniums.

**Prices**  
Half pint .....\$0.75 Quart .....\$2.00  
Pint ..... 1.25 Half gallon ..... 3.50  
Gallon—by express ..... 6.00



## AUTUMN-WINTER GROUND DRESSING.

Gerogen destroys the spores of fungi of most diseases that have fallen to the ground, as well as the larvae of most insects, including the rose pith borers, rose bugs, aphids and most beetles. Terogen also acts as a valuable fertilizer. Makes sturdy, healthy foliage and prevents chlorosis. In convenient semi-powdered form.

**Prices**  
Pound .....\$0.75 Ten pounds .....\$4.75  
Two pounds ..... 1.25 By Express or Freight  
Five pounds ..... 2.75 Twenty-five pounds .....\$11.00  
One hundred pounds ..... 40.00

## Sodium Fluosilicate

### KILLS CUCUMBER AND MELON BEETLES

Do not wait until the Beetles appear. Start control work before the damage begins.

**First Application.** When beetles appear on the plants, or within a week after the plants are above ground.

**Second Application.** 10 days after first application.

**Third Application.** Whenever needed after first application.

**Directions.** Use 1 part of Sodium Fluosilicate with 5 parts of Hydrated Lime. Dust when plants are dry, being sure to get some of the dust on ground around plants. Slight burning may result in some cases but the young plants will grow out of this in a short time. 1 lb., 25c; 5 lbs., \$1.00; 25 lbs., \$4.50.

## Ants Destroyed in their Nests

**NEW METHOD "GETS" THEM AT THEIR SOURCE—SAFE, PERMANENT, EFFECTIVE**

The Antrol system is adapted to any size house or garden and quickly destroys all species of sweet eating ants. It is composed of small glass containers and a special formula of syrup.



The containers are partially filled with syrup and placed about the outside edges of the house or along "ant" trails in the garden if the infestation occurs there. The ants smell the syrup, eat it and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed.

**Prices.** Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 95c; Antrol extra containers (each), 15c; Antrol syrup, 4-oz. bottle, 45c; pt., 95c; gal., \$3.75.

**TERRO ANT KILLER.** Will rid a place of ants in 24 hours. Place Terro in a receptacle. Ants will appear in great numbers at first but will soon disappear entirely. On lawns, golf courses, and fields, place Terro in receptacles or on stones; must not touch grass. Bottle, 50c.

**GRAFTING WAX.** For grafting and to rub over wounds made in pruning. ¼ lb., 20c; ½ lb., 30c; 1 lb., 60c.

**TREE WOUND PAINT.** A specially prepared thick paint to cover wounds after pruning. Protects from weather and insects. Pt., 30c; qt., 50c; gal., \$1.75.

## Spray Plants With

Leading entomologists are familiar with Ever Green and have endorsed it as a safe, effective killing agent.



Kills most plant pests, including even cutworms. Use it freely on tender plants and flowers—it can't burn or otherwise injure them. Neither will it injure the soil.

**NON-POISONOUS.** EVER GREEN kills only insects—it is harmless to man, live stock, birds and pets. **EASY TO USE.** Just mix it with water and stir. No need for constant agitating—EVER GREEN stays in solution and won't clog sprayers.

**PRICES**  
1-oz. bottle .....\$0.35 32-oz. bottle .....\$ 3.50  
6-oz. bottle ..... 1.00 1-gal. can ..... 13.00  
16-oz. bottle ..... 2.00 5-gal. can ..... 50.00

Bulk Prices On Request



## Quickly Kills Garden Pests

### The National Pest Control

**SCIENCE PROVIDES NEW, SAFE METHOD THAT DOES THE WORK WITHOUT FUSS.** Snails, Cutworms, Slugs, Grasshoppers, Ear-wigs, Etc., Are Exterminated. Snarol is a ready prepared meal that you simply broadcast on the ground, under the vegetation. The pests eat the meal and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls and make Snarol popular with professional gardeners and nurserymen. Prices, 1-lb. pkg., 45c; 3-lb. pkg., 95c; 15-lb. pkg., \$3.50; 50 lbs., \$9.50.



## The Original Legume INOCULATOR

### Prices

#### ALFALFA, ALL CLOVERS

Size	Retail	Size	Retail
¼ bu. ....	\$0.40	1 bu. ....	\$1.00
½ bu. ....	.60	5 bus. ....	4.75

#### PEAS, VETCH, BEANS, AUSTRIAN WINTER PEAS

Size	Retail	Size	Retail
½ bu. ....	\$0.40	3½ bus. ....	\$1.80
1 bu. ....	.60	5 bus. ....	2.50
*1 2/3 bus. ....	.90	*Also called "100-lb. size."	

#### SOY BEANS AND COW PEAS

Size	Retail	Size	Retail
1 bu. ....	\$0.40	5 bus. ....	\$1.50
2 bus. ....	.70	10 bus. ....	2.50

#### GARDEN SIZE NITRAGIN

For Peas, Sweet Peas, Beans and Lima Beans (3-in-1). Each, 25c. When ordering, always specify kind of seed.



# Books for better Gardens

Prices Below Include Postage

## ANNUALS

A Little Book of Annuals. By Prof. A. C. Hottes. 128 pages...\$ 1.50

## BULBS

The Book of Bulbs. By F. F. Rockwell. 264 pages..... 3.00  
Bulbs That Bloom in the Spring. By T. A. Weston. 144 pages..... 2.00

## CLIMBERS

A Little Book of Climbing Plants. By Prof. A. C. Hottes. 250 pages..... 1.75

## DAHLIAS

A Little Book of Modern Dahlia Culture. By W. H. Waite. 126 pages..... 1.50  
Dahlias. By F. F. Rockwell. 80 pages..... 1.00

## DICTIONARY

Standard Cyclopaedia of Horticulture. Edited by L. H. Bailey. 3 volumes, over 3600 pages..... 25.00  
Hortus. A new and simplified dictionary of Horticulture. By L. H. Bailey..... 10.00

## EVERGREENS

Cultivated Evergreens. By L. H. Bailey. 434 pages..... 5.00  
Evergreens for the Small Place. By F. F. Rockwell. 84 pages..... 1.00

## HORTICULTURE

Commercial Floriculture. By Fritz Baker. 615 pages..... 5.50

## GLADIOLUS

The Gladiolus. By F. F. Rockwell. 79 pages..... 1.00

## HOUSE PLANTS

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